*****THARUN KILARU***

Senior Java Developer

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**PROFESSIONAL SUMMARY**

Experienced IT professional with over 11 years of proven expertise as a **Senior Java Developer** specializing in the design, development, and deployment of distributed web-based and client-server applications using **Java/Jakarta EE, Spring Boot 3.x** and modern front-end frameworks. Strong experience in building scalable and secure enterprise applications using **Java 17–21, Spring Core 6.x, Spring MVC, JPA/Hibernate 6.x** and **RESTful & SOAP** web services, Skilled in **CI/CD pipelines** using **Jenkins 2.x, Git, Bitbucket, Maven 3.9+, Gradle 8.x**, and deployment automation using **Docker, Terraform** and **AWS services (EC2, Lambda, S3, CloudWatch).**

* Proven expertise in **Java 17/21, Spring Boot 3.x, Spring MVC, Spring Cloud 2024** and **REST/SOAP** Web Services, with hands-on experience in building distributed systems and modernizing legacy platforms.
* Built scalable **front-end** applications using **Angular 13–16**, **TypeScript 5.x, RxJS 7.x, NgRx 16+** and **REST APIs** implemented reusable **UI** components adhering to **MVVM** and reactive programming principles.
* Strong experience in modern **JavaScript** frameworks including **React 18+** for modular UI development and performance optimization. Hands-on experience with the Mean stack (**MongoDB 7.x, Express.js 5, Angular 16, Node.js 20.x**) with strong understanding of **SPA** architecture and responsive design using **HTML5, CSS3, Bootstrap 5.3**, and **SCSS**.
* Developed mission-critical applications for clients like Amex (Payments & Banking), Freddie Mac (Mortgage Finance), and CVS Health (Retail & Pharmacy), delivering resilient, high-performance, cloud-native solutions.
* Solid background in designing and consuming APIs using **OpenAPI 3.1/Swagger** tested with Postman and integrated with **CI/CD** pipelines using Jenkins 2.x. Cloud expertise in **AWS** (**EC2, Lambda, S3, SNS, IAM, CloudWatch, RDS**) and GCP (**App Engine, Cloud Run**, **Pub/Sub, Firestore**) for infrastructure automation and deployment.
* Extensive experience in messaging platforms like **Kafka 3.6, RabbitMQ 3.12 and IBM MQ** to build event-driven microservices and improve asynchronous communication. Expertise in relational (**Oracle 23c, PostgreSQL 16, MS SQL Server 2022**) and **NoSQL** databases (**MongoDB 7.x**, **Cassandra 4.1)**, with strong **SQL/PLSQL** and query optimization skills.
* Integrated **FIX Protocol messaging** for secure client-broker communication in financial applications, Practiced Test Driven Development (**TDD**) and Behavior Driven Development (**BDD**) using **JUnit 5**, **Mockito 5**, **Jasmine, Karma**, and **Postman**.
* Experience in configuration management and automation using **Git, Bitbucket, Maven 3.9+, Gradle 8.x, Docker 24.x**, **Terraform 1.6+** and **Jenkins 2.x** pipelines.
* Expertise in developing backend systems using **Java 17/21, Spring Boot 3.x, Spring MVC, Spring Cloud 2024, Spring** Security 6.x and **Hibernate/JPA 6.x**, following **RESTful API** standards and microservices architecture best practices.
* Strong frontend development skills using **Angular 13–16, React 18+, TypeScript 5.x, JavaScript (ES2023), HTML5, CSS3** and **Bootstrap 5.3** with a focus on building responsive, cross-browser compatible Single Page Applications (SPA).
* Hands-on experience working with **AWS** (**EC2, Lambda, S3, IAM, CloudWatch, RDS**) and Google Cloud Platform (**GCP**) services including **App Engine,** **Cloud Run** and **Pub/Sub**, enabling **cloud-native, fault-tolerant** deployments.
* Strong experience using **Maven 3.0** build System, Good experience in developing applications with **RESTful Web Services.**
* Specialized in **enterprise application modernization**, transforming legacy systems into cloud-native, API-first microservices architectures.
* Led **monolithic to microservices migration** initiatives using Java 17/21, Spring Boot 3.x, Kafka and Docker.
* Strong experience reengineering **J2EE/Oracle ADF monolithic applications** into modular microservices deployed on **Kubernetes (AKS/EKS).**
* Skilled in designing modernization roadmaps, decomposing business logic, and building reactive services using Spring **WebFlux** and **Kafka**.
* Expertise in **CI/CD pipeline** automation and cloud-native deployments across **AWS**, **Azure** and **GCP**.
* Involved in all stages of **Software Development Life Cycle (SDLC**) as well as working in**Agile** Methodologies based development environment, participating in iterations and **SCRUM** meetings.

**TECHNICAL SKILLS**

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| **Operating systems** | Windows 2000/NT/ XP/Vista and Sun Solaris 2.8/2.9, UNIX |
| **Programming** | Java (17- 21), Python (3.x), C++, SQL, JavaScript (ES6-ES2023), TypeScript, Go, Scala, Shell Scripting |
| **Cloud Technologies** | AWS (EC2, S3, SNS, SQS, RDS, Lambda, Route 53, CloudWatch, IAM, Glue, Sage Maker), Azure (Data Lake, Synapse, Cosmos DB, Event Hubs), GCP (Big Query, Data Flow, Cloud Functions, Vertex AI) |
| **Server Scripting** | JSP1.2,2.1, JSP-EL, JSTL, Custom Tags |
| **Client Scripting** | jQuery 1.8,1.9, jQuery, Dojo, Ext JS, AngularJS, JavaScript, CSS2, CSS3, HTML4, HTML5, Node.JS |
| **Java/J2EE Technologies** | JSP, JDBC, JMS, JNDI, Microservices, EJB (Jakarta EE), Servlets, Interceptors, RESTful APIs, Annotations |
| **Database Tools** | PostgreSQL (15+), MySQL (8+), SQL Server (2022+), Oracle (19c+), DB2, MongoDB 7, DynamoDB, Cosmos DB, Cassandra 5, Snowflake |
| **Version Control** | Tortoise SVN, Rational ClearCase, AccuRev, GitHub, CVS |
| **Build Tools** | Maven, Gradle, Nexus, JFrog Artifactory, Sonatype Nexus IQ |
| **CI/CD** | Jenkins, GitHub Actions, GitLab CI/CD, Bitbucket Pipelines, CircleCI, Argo CD, Helm, Terraform |
| **XML Technologies** | XSLT, JAXP, JDOM, SAX, DOM, XPATH, XPointer, XML, XSD, DTD |
| **Web service Tools** | SoapUI 4.0,5.1, TCPMon, Microservices, HTML, HTML5, CSS/CSS3, AJAX, jQuery, Bootstrap, XML, Grunt, Gulp, JSON. |
| **Webservice Implementations** | Axis 1.0,2.1, JWSDP2.1, Sun Metro, Sun Jersey, Apache Fire, Apache CXF |
| **Application Servers** | WebLogic 8.1, 10.0, WebSphere 6.1, JBoss 4.0, Glassfish 4.0 |
| **Web Servers** | Tomcat 5.0,6.0,7.1, Jetty, Restful APIs, SOAP, JSON, XML, JWT, XML |
| **Defect Tracking** | JIRA, Bugzilla, Azure DevOps, ServiceNow, Rational ClearQuest, HP ALM |
| **Methodologies** | Agile (XP, Scrum), Rational Unified Process (RUP), Waterfall, Kanban |

**WORK EXPERIENCE**

**Client: Genpact, New York, NY June 2023 - Present.**

**Role: Sr Java Developer**

**Responsibilities:**

* Gathered business requirements and participated in Agile ceremonies using **Scrum**, **JIRA** and **Confluence**, contributing to sprint planning, backlog refinement, and user story grooming.
* Monitored application performance using **AppDynamics, Prometheus 2.47** and **Grafana 10.3** worked with **cloud services** including **Azure** Functions, **Blob Storage, API Management** and **AWS Lambda, EC2, S3, IAM**.
* Designed **RESTful APIs** that **reduced latency by** and **supported 2M+ transactions daily** Using **Spring Boot 3.2**, **Spring Cloud 2023**, **Spring MVC 6** and **Spring Security 6**, enabling seamless **frontend-backend** integrations.
* Built efficient microservices leveraging **Java 17/21**, **improving system throughput by** features such as record classes, pattern matching, virtual threads (Project Loom), switch enhancements, and updated Stream APIs.
* Implemented reactive services using **Spring Web Flux** for non-blocking I/O and optimized REST APIs using **Jakarta EE 10 (JAX-RS)** in legacy systems. Designed modern user interfaces using **React 18+**, **Angular 16+** and **TypeScript 5**, incorporating Angular Standalone Components and signal-based state management (Angular Signals).
* Created dynamic, mobile-first UI components with **HTML5**, **CSS3**, **Bootstrap 5.3**, and **ES2023+ JavaScript**, and ensured legacy support using **AJAX** for async requests. Built asynchronous, real-time event-driven systems using **Apache Kafka 3.6+** and message brokers like **RabbitMQ 3.12+** and **IBM MQ 9.3** for robust communication between distributed services.
* Containerized microservices using **Docker 24.x** and orchestrated deployments through **Azure Kubernetes Service (AKS)** and **Amazon EKS**, ensuring high availability and scalability. Designed analytics modules and implemented search capabilities using **Elasticsearch 8.x** and **Kibana 8.x** for business insights and real-time monitoring.
* Managed NoSQL databases like **MongoDB 7.x**, **Cassandra 5**, and **Azure Cosmos DB**, implementing scalable data models and efficient schema designs. Developed complex SQL queries and procedures using **JDBC 4.3** across relational databases like **PostgreSQL 15**, **Oracle 21c**, and **MySQL 8.1**.
* Spearheaded **modernization of a monolithic Java EE application** into a distributed microservices-based architecture using Spring Boot, Kafka and containerized services on **AKS** and **EKS**.
* Refactored business-critical modules from Oracle ADF and **Spring MVC** monoliths to reactive microservices using **Java 21** and **Spring WebFlux**.
* Designed and implemented an **API-first strategy** using **RESTful APIs** and OpenAPI 3.1 to enable system decoupling and frontend-backend separation.
* Improved release agility by 40% through **microservices decomposition**, CI/CD pipeline enhancements, and cloud-native deployment automation using **Terraform** and **Jenkins**.
* Reduced legacy technical debt by eliminating redundant components, introducing shared services, and aligning architecture to **Domain-Driven Design (DDD) principles**.
* Implemented API security using **Spring Security 6**, **OAuth 2.1**, and **JWT**, with secrets management via **Azure Key Vault** for secure access control. Automated infrastructure provisioning using **Terraform 1.6+** to manage resources across **AWS**, **Azure**, and **Google Cloud Platform (GCP)**.
* Built CI/CD pipelines using **Jenkins 2.426**, **GitHub Actions**, and **Azure DevOps**, enabling automated builds, containerization, and deployments across hybrid cloud environments. Developed unit and integration tests using **JUnit 5.10**, **Mockito 5**, **Testcontainers**, and **WireMock** validated API contracts with **Cypress** and schema-based testing approaches.
* Monitored application performance and health using **AppDynamics**, **Prometheus 2.47**, and **Grafana 10.3** dashboards for proactive issue detection and resolution. Integrated with cloud-native services like **Azure Functions**, **Blob Storage**, **API Management**, and **AWS Lambda**, **EC2**, **S3**, and **IAM** for scalable, secure cloud-based operations.

**Environment:** Java 17/21, Spring Boot 3.2, Spring Cloud 2023, Spring Security 6, Spring MVC 6, Spring WebFlux, Jakarta EE 10 (JAX-RS), Hibernate 6.2+, Spring Data JPA 3+, Kafka 3.6+, RabbitMQ 3.12+, IBM MQ 9.3, MongoDB 7.x, Cassandra 5, PostgreSQL 15, Oracle 21c, MySQL 8.1, Cosmos DB, React 18+, Angular 16+, TypeScript 5, HTML5, CSS3, Bootstrap 5.3, JavaScript (ES2023+), Docker 24.x, Kubernetes (AKS, EKS), Elasticsearch 8.x, Kibana 8.x, Terraform 1.6+, Jenkins 2.426, GitHub Actions, Azure DevOps, JUnit 5.10, Mockito 5, Testcontainers, WireMock, Cypress, AppDynamics, Prometheus 2.47, Grafana 10.3, Azure Functions, AWS Lambda/EC2/S3/IAM, API Management, Azure Blob Storage

**Client: AT&T, Dallas, TX Aug 2021 to May 2023.**

**Role: Sr Java Developer**

**Responsibilities:**

* Promoted Agile best practices through **TDD**, pair programming, and sprint planning to enhance productivity and code quality. Participated in Agile methodology **(Scrum)** for design, development, and testing phases using **JIRA** and **Confluence**.
* Built Single Page Applications **(SPA)** using **Angular 6** and **TypeScript**, improving application responsiveness and user experience. Developed UI components using **HTML5**, **CSS3**, **JavaScript ES6**, and integrated with backend services.
* Utilized **npm**, **Grunt.js**, **Yeoman** for front-end build automation and dependency management. Built enterprise web applications using **Oracle ADF 11g** and **JDeveloper 11g** for BPM and SOA integrations.
* Implemented **DevOps** practices using **Jenkins**, **Gradle**, **Maven**, **Groovy**, **SVN**, **SonarQube**, and **JFrog Artifactory** for CI/CD pipelines.
* Developed microservices and REST APIs using **Java 8**, **Spring Boot**, **Spring MVC**, and **Spring Data JPA**. Built reusable server-side components and helper classes using **Spring Framework**, **Hibernate**, and **JPA**. Used **Quartz Scheduler** to orchestrate and run scheduled batch jobs with multithreading and multitenancy support.
* Implemented REST API authentication and authorization using **Spring Security** and created centralized exception handling.
* Built transaction tracking modules and optimized persistence using **JPA Entity Graphs**, custom queries, and **Entity Manager**. Developed and executed **JUnit** and **Mockito** test cases for backend logic and **Karma**/**Jasmine** for Angular modules.
* Optimized database operations using **PL/SQL**, stored procedures, and improved Cassandra table performance using **Cassandra stress** tools. Involved in **Cassandra cluster** setup, configuration, troubleshooting, and consistency level testing.
* Maintained source code version control and branching strategies using **SVN**, enabling efficient release management. Implemented centralized logging using **Log4j** for monitoring and debugging. Applied **Liquibase** for database versioning and migrations across environments. Contributed to application logic using **Go** and **Scala** for specific modules requiring concurrency and data transformations.
* Solid background in designing and consuming APIs using **OpenAPI 3.1**/**Swagger** tested with Postman and integrated with **CI/CD** pipelines using **Jenkins 2.x**.

**Environment:** Java 8, Spring Boot 2.6, Angular 6, HTML5, CSS3, TypeScript, Oracle ADF 11g, JDeveloper 11g, Jenkins, Maven, Gradle, SVN, SonarQube, JFrog Artifactory, Spring Security, Spring Batch, Spring Data JPA, Hibernate, Liquibase, Oracle 19c, Cassandra 3.x, Quartz Scheduler, Log4j, JUnit, Mockito, Karma, Jasmine, Go, Scala

**Client:** **Cardinal Health, Dublin, Ohio. Sep 2019 to July 2021.**

**Role: Java Developer**

**Responsibilities:**

* Developed enterprise-grade applications using 3-Tier Architecture **Presentation Layer**, **Business Logic Layer,** and **Data** Access Layer to meet client’s healthcare IT standards. Designed the application following **MVC architecture** and implemented **J2EE design patterns** for scalability and maintainability.
* Automated healthcare report generation using **MongoDB JavaScript**, **Java**, and **Shell Scripting** to improve data pipeline efficiency. Implemented printable charts and data visualizations using **HTML5**, **CSS3** and **jQuery** for medical reporting modules.
* Developed dynamic Single Page Applications (**SPA**) using **React JS** and **Flux**, incorporating **React Forms** and **React Router** for user-driven routing and form handling. Leveraged **Web Sockets** with **React** for real-time collaboration and patient data sync across multiple users.
* Utilized **Vue.js** for developing additional lightweight modules with declarative templates and two-way data binding created custom directives to handle specific healthcare data formatting. Created reusable **RESTful API** integrations using **React HTTP services** to handle **GET**, **POST**, **PUT**, and **DELETE** requests.
* Implemented Responsive Web Design using **Bootstrap 4** and **CSS3 media queries** for seamless access across desktop, tablet, and mobile platforms. Developed web interfaces with **HTML**, **CSS**, and **JavaScript**, integrating with internal healthcare **Web Services (JAX-WS)** via **SOAP/HTTP** for legacy system communication.
* Created and managed **JSF managed Beans** for dynamic page rendering and backend data processing. Executed production deployments and application configuration on **UNIX/Linux** servers for seamless release delivery.
* Implemented data persistence using **Hibernate ORM** integrated with **Spring DAO** layer and connected to **Oracle 12c** for data storage.
* Built and maintained **SQL queries**, **stored procedures**, and **functions** to support healthcare data transactions and analysis. Configured and deployed applications on **WebLogic 12c**, **JBoss**, and **WebSphere Application Server (WAS 6.1)** for enterprise hosting.
* Monitored application performance, health, and logs using **Log4j** and conducted security checks for application stability. Managed and deployed application builds using **Apache Ant**, **Maven**, and **Jenkins**, automating multi-module builds across environments.
* Created **WebLogic domains**, configured **Admin** and **Managed Servers**, and deployed **Java/J2EE** applications in both production and non-production environments. Presented **UNIX-based production schedules** and implementation plans to project managers and client stakeholders.
* Installed, maintained, and optimized **Apache Tomcat** and **WAS** servers on **Linux** platforms to ensure secure and performant application hosting. Worked in Agile teams following **Scrum methodology**, attending daily stand-ups, sprint reviews, and retrospectives for continuous improvement.

**Environment:** Java 8, Spring 5, Spring Boot 2.x, Hibernate 5, Oracle 12c, MongoDB, React JS, Vue.js, HTML5, CSS3, Bootstrap 4, jQuery, JavaScript (ES6), JAX-WS, WebLogic 12c, JBoss, Apache Tomcat, WAS 6.1, Ant, Maven, Jenkins, Log4j, Shell Scripting, Linux/Unix.

**Client: State of CO, Denver, CO June 2016 to Aug 2019.**

**Role: Java Developer**

**Responsibilities:**

* Designed and developed applications using **Spring Framework, RESTful Web Services, Hibernate**, and **Django** following **Agile & Scrum** methodologies with Test-Driven Development **(TDD**).
* Developed **RESTful APIs** using **Spring Boot, Django REST Framework** (**DRF),** and **Flask**, integrating with front-end applications using **React** and **Angular**. Implemented **SQL** Alchemy and **Hibernate** for ORM-based database interactions, optimizing queries for **PostgreSQL**, **MySQL**, and **Oracle**.
* Built and deployed event-driven architectures using **Apache Kafka, RabbitMQ**, and **AWS SNS/SQS**, ensuring smooth communication between microservices. Developed backend logic with **Python, Java (J2EE**), and **Node.js**, utilizing multithreading and asynchronous programming to improve system performance.
* Designed and implemented microservices architectures with **Spring Boot, Django**, and **Flask**, ensuring scalability and fault tolerance. Used **AWS Lambda, AWS Glue,** and Step Functions for building serverless data processing pipelines.
* Managed data modeling and schema design for **SQL** and **NoSQL databases** (**DynamoDB, MongoDB**, **PostgreSQL**, and **MySQL**), ensuring efficient data storage and retrieval. Developed and consumed **GraphQL** and **REST APIs, optimizing API** response times and data **fetching strategies**. Built responsive **UI components using React, Redux, JavaScript (ES6+), TypeScript**, and **Angular**.
* Utilized **Docker, Kubernetes,** and Helm for containerized deployments on **AWS, GCP**, and **Azure Kubernetes** Services **(AKS, GKE, EKS).**
* Implemented **AWS CloudFormation, Terraform**, and **AWS CDK** for Infrastructure as Code (**IAC**), automating cloud resource provisioning. Designed real-time data streaming solutions using **Apache Kafka, AWS Kinesis**, and **Google Pub/Sub** for large-scale data ingestion.
* Developed and maintained unit and integration tests using **JUnit, Mockito, PyTest**, and **Cypress** to ensure application reliability. Integrated **CI/CD pipelines** with **Jenkins, GitHub Actions, GitLab CI/CD,** and **AWS CodePipeline** for automated deployment. Implemented authentication and authorization using **OAuth 2.0, JWT, AWS Cognito**, and **Spring Security.**
* Leveraged **AWS Glue, Pandas, NumPy**, and **Apache Spark** for data processing, transformation, and analytics in **big data** environments. Built **ETL pipelines** for data migration and transformation using **Python, SQL, AWS Glue**, and **Apache Airflow**.
* Developed server-side caching using Redis, Memcached, and AWS ElastiCache, optimizing API performance. Created interactive dashboards using **React, Chart.js, D3.js,** and **Python Dash** for **real-time data** visualization, Utilized logging and monitoring tools such as **ELK** (Elasticsearch, Logstash, Kibana), **AWS CloudWatch**, Prometheus, and Grafana.

**Environment:** Java 8, Python, Django, Flask, SQL Alchemy, Spring Boot, Hibernate, React, Angular, Node.js, RESTful APIs, GraphQL, PostgreSQL, MySQL, DynamoDB, AWS (EC2, S3, SNS, SQS, Lambda, Glue, CloudFormation, IAM), Terraform, Docker, Kubernetes, Kafka, RabbitMQ, Apache Spark, AWS Glue, Airflow, Jenkins, Git, JIRA, Cypress, JUnit, PyTest

**Client: Wells Fargo, San Francisco, California Feb 2014 to May 2016.**

**Role: Software Engineer**

**Responsibilities:**

* Designed and developed both **front-end** and **back-end** components using **Servlets**, **Java**, **HTML5**, **CSS3**, **Bootstrap 3**, **AngularJS**, **Ember.js**, and **AJAX**, aligning with financial application UI standards. Developed server-side **JavaScript** logic and **REST APIs** using **Node.js, Next.js** and **Express.js**, integrating with **MongoDB** for real-time data operations.
* Designed **NoSQL** schema and implemented document-based models using **MongoDB**, optimized for financial transaction storage and retrieval. Built responsive and scalable web applications by integrating **Angular 2**, **Bootstrap**, and **Vue.js** with RESTful backend services.
* Designed and implemented dynamic and secure user interfaces using **React.js**, **JavaScript**, **HTML5**, and **CSS3** for device-agnostic platforms.
* Used **Spring IOC** architecture and **Hibernate ORM** for business logic and database interactions in multi-tier **J2EE** environments. Developed web services and business logic layers using **Java**, adhering to MVC design patterns. Designed and developed **AEM** components, templates, dialogs, and **workflows** installed and configured **AEM 6.x** across multiple environments.
* Built reusable UI components using **Drupal**, **jQuery**, and **JSON** to support dynamic and modular banking dashboards.
* Implemented automated functional and integration testing using **JUnit 4**, **Mocha**, **Chai**, and **Cypress** for testing both Java and **JavaScript** modules. Defined **BDD** scenarios and test cases using **Cucumber**, integrated within **Test Manager** for business flow validations. Created and managed build/deploy pipelines using **Gradle**, **Maven**, **Jenkins**, and integrated with **GitHub** and **Artifactory**.
* Integrated **JIRA**, **Bamboo**, **Fisheye**, and **Crucible** for issue tracking, code review automation, and continuous integration across Agile workflows. Managed container-based deployments using **Docker** and **Kubernetes**, including writing **Docker files** and configuring **CI/CD** triggers.
* Configured AWS infrastructure including **EC2**, **EBS**, **ELB**, **RDS**, and **S3**, and set up **AWS CloudWatch** for monitoring metrics and creating alert-based notifications. Deployed scalable services on **AWS VPCs** across development, staging, and production environments. Utilized **Spring XML configuration** for defining application context, bean lifecycle, and dependencies.
* Followed Test-Driven Development **(TDD)** and Behavior Driven Development **(BDD)** methodologies for consistent test coverage and application quality. Performed unit and integration testing for financial transaction modules using **JUnit**, **Mocha**, and Chai for backend and frontend layers respectively.
* Worked extensively with **OOP principles** and **Java collections framework** for processing and manipulating business data objects. Engaged in **Agile** ceremonies and collaborated with cross-functional teams for delivering secure and robust financial applications.

**Environment:** Java 7, Spring 3.x, Hibernate 4.x, J2EE, AngularJS, Ember.js, Node.js, Next.js, Express.js, HTML5, CSS3, JavaScript (ES5/ES6), jQuery, Bootstrap 3, AJAX, MongoDB, MySQL, JIRA, Bamboo, Crucible, Fisheye, Docker, Jenkins, Gradle, Maven, AWS, JUnit 4, Mocha, Chai, Cypress, AEM 6.x, Cucumber, Drupal, Git, CI/CD, AWS CloudWatch