### **Navya Dommalapati**

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### **Professional Summary**

* Versatile and results-driven Software Engineer II with over 8+ years of full-stack development experience, specializing in building and maintaining consumer-facing web applications and cloud-native solutions in AWS.Highly skilled in React.js, Node.js, PostgreSQL, and other modern JavaScript frameworks (Angular, Vue.js).
* Expertise in building Microservices and integrating APIs to support complex business logic and data-driven applications.
* Experience in designing, developing, and maintaining backend applications, leveraging Java, Spring Boot, and RESTful APIs. Expertise in integrating enterprise solutions with Newgen One for workflow automation and digital transformation. Proficient in collaborating with frontend developers to deliver high-performance applications using React.js and ensuring the efficiency and scalability of SQL/NoSQL databases.
* Proven track record of success in Agile/Scrum environments, skilled in designing scalable applications, developing secure RESTful APIs, and driving DevOps practices using modern CI/CD tools. Expertise in Java, Spring Boot, Angular, React, Node.js, and cloud infrastructure (AWS) with a focus on performance, security, and maintainability.
* Extensive experience working with Big Data technologies such as Hadoop, Spark, Hive, and Kafka to process large datasets efficiently.
* Deep understanding of database management, including SQL and NoSQL databases (PostgreSQL, MongoDB), and data integration with Big Data tools.
* Proficient in containerization and orchestration technologies such as Docker and Kubernetes, ensuring scalable and maintainable systems.
* Strong knowledge of cloud platforms (AWS, GCP, Azure), with hands-on experience deploying applications on AWS EC2, Google Kubernetes Engine (GKE), and Azure App Services.
* Expertise in Agile methodologies (Scrum and Kanban) for software development, with extensive use of JIRA and Confluence for project management.
* Proven track record in developing real-time applications, including integrating WebSockets for live data feeds.
* Demonstrated ability to work collaboratively in cross-functional teams, ensuring smooth communication between front-end developers, back-end engineers, and data scientists.
* Solid experience in CI/CD pipelines using tools like Jenkins, GitHub Actions, and GitLab CI, ensuring rapid and reliable application delivery.
* Skilled in version control systems such as Git, maintaining clear and organized code management practices.
* Passionate about learning new technologies and continuously improving coding skills, including interest in Data Science and Machine Learning.
* Proficient in unit testing and integration testing using frameworks like Jest, Mocha, and Chai to ensure high-quality code.
* Well-versed in object-oriented programming with experience in Python, Scala, and JavaScript.
* Strong focus on security protocols, ensuring secure communication and data protection within applications.
* Excellent debugging skills and the ability to optimize both front-end and back-end performance for better user experience.
* Data Modeling expertise, particularly in Big Data environments with experience in structured and unstructured datasets.
* Hands-on experience with serverless architectures, including AWS Lambda and Azure Functions for microservices.

**🧰 TECHNICAL SKILLS**

* **Frontend:** React.js, Angular, Vue.js, Tailwind CSS, Next.js, JavaScript, HTML5, CSS3
* **Backend:** Java, Spring Boot, Node.js, NestJS, Express.js, Hibernate, J2EE
* **Cloud:** AWS (EC2, S3, Lambda, API Gateway, DynamoDB), Docker, Jenkins
* **DevOps & Tools:** Git, Bitbucket, Jenkins, Docker, Kubernetes, Terraform, CI/CD pipelines
* **Database:** MySQL, PostgreSQL, MongoDB, Redis, DynamoDB
* **Security:** OAuth2.0, JWT, HTTPS, Role-Based Access Control
* **Methodologies:** Agile, Scrum, TDD, CI/CD, SDLC
* **Other:** SEO optimization, Cross-browser compatibility, REST APIs, Unit Testing (JUnit, Mocha, Jest)

### **PROFESSIONAL EXPERIENCE**

**AT&T, Dallas, Texas Jan’2022-Till Date**

**Sr. software Engineer/FullStack**

* Developed and maintained RESTful APIs using Express.js and TypeScript, ensuring type safety, modularity, and maintainability of the application.
* Utilized OpenAPI (Swagger) to document and expose Express.js API endpoints, enabling seamless integration and client-side auto-generation of API requests.
* Developed server-side applications with Express and TypeScript, leveraging TypeScript’s static typing to reduce runtime errors and improve code reliability.
* Used JWT (JSON Web Tokens) and OAuth for secure authentication and authorization in Node.js applications, improving security and user data protection.
* Designed and implemented file upload functionality using Node.js and Multer middleware, handling large file uploads for media storage and management.
* Built and maintained web applications using Node.js, NestJS, and Next.js on AWS.
* Designed responsive UI components using React and Tailwind CSS; improved UI performance.
* Worked with CI/CD pipelines using Jenkins, Maven, and Git to automate the build, testing, and deployment process, ensuring a seamless integration cycle.
* Built a dynamic user interface using React.js, allowing users to view product details, manage stock levels, and visualize product data.
* Integrated Bitmap images to represent products, allowing the system to display high-quality product images without affecting performance. Optimized image storage and loading times.
* Developed product search and filter features that integrated with the PostgreSQL database for real-time inventory data updates.
* Created Node.js server-side applications that interface with SQL (MySQL, PostgreSQL) and NoSQL (MongoDB) databases for data persistence.
* Utilized React Hooks (useState, useEffect, useContext, etc.) to manage component state, lifecycle methods, and context in modern React applications.
* Built dynamic user interfaces using React.js and Redux, enabling seamless interaction with real-time data.
* Developed the server-side using Node.js and Express.js, ensuring smooth communication with the frontend and external APIs.
* Designed and implemented RESTful APIs to integrate with third-party data sources, enabling real-time data updates for the dashboard.
* Worked with Apache Kafka for real-time data streaming and integrated Apache Spark to process large-scale sales and customer data.
* Utilized Bitmap for the storage and display of images (e.g., product images, icons) within the application, improving loading speed by converting images into bitmap format and using caching strategies.
* Optimized bitmap images to ensure faster loading times while maintaining visual quality and reducing bandwidth usage on product pages.
* Used PostgreSQL for transactional data and MongoDB for unstructured data, ensuring optimal performance.
* Deployed the application using AWS EC2 and AWS Lambda for serverless architecture, ensuring scalability and reliability.
* Designed and implemented a responsive user interface with React.js, enabling dynamic content updates without page reloads.Utilized Docker for containerizing the application and Kubernetes for orchestration, ensuring efficient deployment and scaling.
* Deployed the application on AWS EC2 instances, configured Docker containers for the backend services, and optimized the PostgreSQL database for scalability.
* Implemented OAuth 2.0 for secure user authentication and encrypted sensitive data in transit using SSL/TLS protocols.
* Implemented state management solutions in React using Redux and React Context API for global state management, ensuring seamless data flow across the app.
* Designed the MongoDB schema for product catalogs, user profiles, and orders, ensuring efficient data storage and retrieval.

**Level3 Communication, Littleton, CO July’2019-November’2021**

**Full stack Engineer**

* Developed and maintained RESTful APIs using Node.js and Express.js, ensuring seamless communication between front-end and back-end systems.
* Optimized the backend by applying Bitmap indexing to improve query performance when retrieving large datasets for dashboards, especially for event categories and statuses.
* Leveraged TypeScript features like interfaces, types, and generics to create robust and maintainable backend services with Express.js.
* Wrote unit and integration tests for React components using Jest and React.js Testing Library, ensuring application reliability and preventing regressions.
* Led front-end development using Vue.js, Angular, and Tailwind CSS to modernize UI across platforms.
* Built robust RESTful services using Java Spring Boot, integrating with microservices and external APIs.
* Wrote unit and integration tests using JUnit and Mockito, driving TDD best practices.
* Enhanced application security through JWT-based authentication and role-based access control.
* Designed and implemented SQL/NoSQL database schemas, improving data query performance
* Integrated Python with relational and NoSQL databases (e.g., PostgreSQL, MongoDB) using SQLAlchemy, Django ORM, and PyMongo for data persistence.
* Developed scalable, maintainable, and testable applications using TypeScript and Express.js, adhering to best practices in API development and security.
* Utilized PostgreSQL's advanced features like JOINs and Window Functions to efficiently manage and report on product inventories and sales.
* Developed efficient data migration scripts in Java to move data between different databases (SQL to NoSQL or between different SQL databases).
* Used Node.js and Express.js for building the server-side API to process medical records and integrate data from external sources.
* Used Bitmap indexing in PostgreSQL for columns with low cardinality (such as Boolean flags or categories) to speed up query execution on large datasets, reducing the response time for complex queries by 30%.
* Utilized Apache Hadoop and Hive to process large datasets, ensuring accurate and efficient data aggregation.
* Integrated Apache Kafka for real-time data streaming, and Apache Airflow to manage ETL (Extract, Transform, Load) workflows.
* Developed the user interface for the analytics dashboard using React.js, enabling users to visualize data in real-time through interactive charts, graphs, and tables.
* Implemented WebSocket connections to stream data live, ensuring that users received up-to-date metrics without page reloads.
* Incorporated Bitmap images for icons and visual indicators, improving the user experience with fast-loading and efficient image rendering.
* Developed a data visualization dashboard using React.js to display insights, trends, and predictions based on processed healthcare data.
* Leveraged Node.js for building scalable and high-performance backend services for real-time applications, handling over 100,000 concurrent users.
* Automated file processing tasks using Python, such as parsing CSVs, XML, and JSON, and manipulating data for reports and analytics.
* Designed and implemented microservices architecture using Node.js, improving modularity, scalability, and maintainability of the application.
* Built and consumed REST APIs in Python, interacting with third-party services and integrating data into the application using Flask or Django REST Framework.
* Created and maintained SOAP Web Services and RESTful APIs for communication between different systems, ensuring smooth data exchange.
* Participated in the migration of monolithic applications to cloud environments (AWS), achieving improved scalability and lower operating costs.
* Developed unit tests for Node.js applications using Jest, ensuring comprehensive coverage and improving code reliability.
* Optimized Node.js applications for performance, reducing response times by 30% through the use of asynchronous programming and non-blocking I/O operations.

**Think Bridge Software, Austin, TX Feb’2016-May’2019**

**Software Engineer**

* Designed and implemented Java-based microservices that communicated with other services using RESTful APIs, improving system modularity and scalability.
* Managed the deployment and configuration of applications on Apache Tomcat 9/10 and IBM WebSphere, ensuring optimized performance and scalability for high-load financial applications.
* Created the user interface for the messaging platform using React.js, providing real-time updates and dynamic content changes.
* Designed and developed the backend using Node.js and Express.js to build a set of RESTful APIs for inventory management, including operations for adding, updating, and deleting product records.
* Integrated PostgreSQL for relational database management, allowing efficient handling of product data, categories, suppliers, and stock levels.
* Participated in the migration of legacy content to AEM, ensuring all data was accurately transferred and functional post-migration.Used Swagger Codegen to auto-generate TypeScript models from OpenAPI definitions, reducing manual effort and ensuring consistency across the application.
* Developed the server-side of the application using Node.js and Express.js, building APIs for product management, user authentication, and order handling.
* Implemented advanced Bitmap indexing in PostgreSQL to optimize queries on large datasets, particularly for image-based attributes such as product categories and tags, significantly improving the performance of product searches.
* Deployed Python applications to cloud platforms like AWS (EC2, Lambda), Azure, and Google Cloud using Docker and Kubernetes.’Designed and implemented real-time features using Express in combination with Socket.io for bidirectional communication between client and server.
* Integrated Java applications with cloud services like AWS EC2, Lambda, and S3 to build highly scalable and reliable cloud-native solutions.
* Utilized Java 8/11 features such as lambda expressions, streams, and Optional to write cleaner, more readable, and efficient code.
* Developed scalable consumer-facing web applications using Angular and Spring Boot.
* Designed and maintained backend APIs with Java and Spring Boot, integrating secure OAuth2.0 authentication.
* Supported backend processes in AWS, including Lambda functions, S3, and EC2 instances.
* Collaborated in Agile Scrum teams, participating in sprint planning, daily standups, and retrospectives.
* Managed CI/CD pipelines using Jenkins, Bitbucket, and Docker for smooth deployments.
* Implemented real-time data handling and dashboards with WebSockets and REST endpoints.
* Designed the PostgreSQL schema with tables for products, categories, suppliers, and transactions.
* Developed the backend using Node.js and Express.js, handling RESTful APIs for user registration, login, and message storage.
* Worked with Socket.io for real-time, event-driven communication in Node.js applications, providing features like live chat, notifications, and real-time updates.
* Deployed the application on AWS EC2 instances for scalability and high availability.
* Set up continuous integration and continuous deployment (CI/CD) pipelines using GitLab CI and Docker.
* Configured application scaling and load balancing using AWS Elastic Load Balancer (ELB).
* Developed Spring Boot microservices to integrate with a variety of third-party systems, streamlining data flow across the organization.