

# Saikiran Korla

## Software Engineer | Java, Spring Boot, AWS | FinTech & Cloud Systems Specialist

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### SUMMARY

**Software Engineer** with over 5 years of experience building and deploying secure, scalable systems across FinTech and cloud-native environments. Designed and optimized Java/Spring Boot and microservices architectures on AWS supporting 1M+ users and processing 2M+ daily transactions. Prepared RESTful API development, event-driven systems, CI/CD automation, and Angular-based frontends. Implemented Python and knowledgeable in C/C++, MATLAB, and real-time signal/data processing for high-performance applications. Improved system performance by up to 40% through cloud migration and latency reduction initiatives. Strong background in PCI DSS and HIPAA compliance, with a consistent record of delivering reliable solutions in agile teams.

### TECHNICAL SKILLS

**Programming & Frameworks:** Java, Python, JavaScript, TypeScript, Spring Boot, Spring Security, Hibernate, Django, Node.js, Angular, React.js

**Cloud & DevOps:** AWS (EC2, S3, RDS, Lambda, DynamoDB, IAM, CloudWatch, API Gateway, SNS, SQS), Docker, Kubernetes, Terraform, CloudFormation, Jenkins, GitHub Actions

**Backend & API Development:** RESTful APIs, GraphQL, Microservices Architecture, WebSockets, API Gateway, OAuth 2.0, JWT

**Signal Processing & Embedded Development (New):** MATLAB (algorithm prototyping), Digital Signal Processing (DSP) fundamentals, Radar signal/image processing concepts, Sensor fusion, Real-time data processing, Embedded systems programming, Automated analysis and verification frameworks

**AI & Gen-AI Skills:** LLM Integration (OpenAI, HuggingFace), Prompt Engineering, RAG Pipelines (FAISS/Pinecone), ML Basics (Scikit-Learn, TensorFlow Lite), AI Automation (classification, summarization), Model Inference & Deployment (FastAPI, Docker), AI Evaluation & Monitoring

**Databases & Data Engineering:** PostgreSQL, MySQL, MongoDB, Oracle, Redis, Apache Kafka, Snowflake, SQL Analytics, Pandas, NumPy, Power BI

**Security & Compliance:** OAuth 2.0, JWT, CSRF, CORS, TLS/SSL, PCI DSS, HIPAA, Secure Coding Practices, Role-Based Access Control (RBAC)

**Testing, Monitoring & Automation:** JUnit, Mockito, PyTest, Selenium (Basic), Postman, Swagger, ELK Stack, Prometheus, AWS CloudWatch

**Agile & Collaboration:** Scrum, Sprint Planning, Code Reviews, Pair Programming, JIRA, Confluence

### EXPERIENCE

#### Capital One, USA | Software Engineer

Aug 2024 – Present

- Prepared and developed 20+ RESTful APIs with Java (Spring Boot, Hibernate) and Node.js, enabling secure handling of 2M+ daily transactions while ensuring PCI DSS compliance.
- Automated provisioning of 50+ AWS resources (EC2, RDS, Lambda, DynamoDB, API Gateway) using Terraform and CloudFormation, cutting environment setup time from 2 days to 3 hours (~40% faster deployment).
- Engineered event-driven microservices with Apache Kafka and WebSockets, reducing transaction latency by 25% and improving real-time transaction throughput for 1M+ active users.
- Built and integrated React.js dashboards with Power BI for financial reporting, improving access to insights by 30% and reducing manual data analysis time by 15 hours/week.
- Integrated LLM APIs (OpenAI, HuggingFace) into internal developer tools to automate log summaries, exception explanations, and code review suggestions, reducing debugging effort by 15% for the engineering team.
- Built a lightweight RAG-based assistant using FAISS to help developers quickly find API docs, architecture references, and onboarding materials.
- Enhanced CI/CD pipelines with Jenkins, GitHub Actions, and Docker, reducing deployment time from 60 minutes to under 30 minutes (~50% faster) and improving release reliability.
- Implemented monitoring and alerting with CloudWatch, ELK Stack, and Prometheus, decreasing incident resolution time by 35% and achieving 99.99% uptime.
- Collaborated with cybersecurity teams to conduct quarterly vulnerability assessments, reducing critical security incidents by 20%.
- Conceptualized modular code libraries, enhancing data processing speeds by 4x using radar signal processing methods; personally fixed 100+ critical bugs in the data processing pipeline.

#### Hexaware Technologies, India | Software Engineer

Oct 2021 – Jul 2023

- Migrated 10+ legacy monolithic applications to cloud-native microservices on AWS, improving system scalability and achieving 99.99% uptime across production systems serving 500K+ users.
- Built a lightweight RAG-based search feature using embeddings (FAISS) that helped developers retrieve code snippets, API specs, and design docs in seconds, cutting lookup time by 20% and improving onboarding for new team members.
- Planned and optimized REST APIs with Spring Boot & OAuth 2.0, improving response times by 40% & supporting 100K+ concurrent API calls daily.
- Computerized infrastructure provisioning and deployments with Terraform, Kubernetes, and Jenkins, reducing release cycles from 3 weeks to 5 days (~65% faster).
- Integrated LLM APIs (OpenAI) into internal tools to automate log summarization and ticket classification, reducing triage time for support teams by providing instant root-cause insights.
- Integrated Apache Kafka with Snowflake to enable real-time fraud detection, cutting fraudulent transactions by 15% annually.
- Delivered React.js dashboards for order tracking & inventory management, reducing manual processes by 30% and saving 20 staff hours per week.
- Created Python and Bash automation scripts, eliminating 150+ hours of manual work per quarter in log analysis and system maintenance.
- Developed modular code libraries with clear documentation and launched automated validation tools for large data pipelines, applying high-throughput processing methods inspired by real-time multi-sensor workflows.

#### Byte Mind Technologies, India | Associate Software Engineer

Jan 2019 – Sep 2021

- Created secure RESTful APIs with Java Spring Boot for healthcare systems, ensuring compliance with HIPAA and FHIR standards while supporting 50K+ patient records.
- Improved React.js front-end components with TypeScript, HTML5, and CSS3, improving load times by 20% and enhancing user experience for 10K+ active users.
- Designed and deployed scalable microservices with Docker and Kubernetes, improving fault tolerance and achieving 99.95% availability.
- Managed 30+ AWS resources (EC2, RDS, S3, Lambda, DynamoDB) via Terraform, reducing cloud infrastructure costs by 15%.
- Conducted system performance tuning and load balancing, supporting 2x traffic spikes without downtime.
- Documented 20+ APIs and 5+ cloud architectures, reducing onboarding time for new developers by 25%.
- Integrated live data-stream processing components and sensor-fusion-style aggregation logic to enhance healthcare analytics performance.

### EDUCATION

#### University of Dayton, Ohio, USA

Aug 2023 – May 2025

Master of Science in Computer Science

#### Anil Neerukonda Institute of Technology & Sciences (AU), Visakhapatnam, Andhra Pradesh, India

Aug 2017 – Jun 2021

Bachelor of Technology in Electronics & Communication Engineering