ROSHAN KAKARLA

UNITED STATES

PROFESSIONAL SUMMARY

- Software Engineer with 4 years of experience in Java, Python, JavaScript, and SQL for building scalable backend systems and full-stack web applications.
- Strong in REST API design, data pipelines, and event-driven microservices using Spring Boot and FastAPI.
- Experienced with AWS cloud services (Lambda, S3, EC2, RDS), CI/CD automation for reliable deployment
- Proficient in frontend development using React.js, TypeScript to create interactive, high-performance UIs.
- Skilled in database design, schema optimization, transactional workflows with PostgreSQL and MySQL.
- Adept at writing unit tests, debugging production issues, and maintaining code quality through Agile sprints.
- Collaborated cross-functionally with teams across finance, insurance, and SaaS product domains.
- Passionate about delivering secure, efficient, and maintainable software solutions at scale.

EXPERIENCE

SOFTWARE ENGINEER | AMERICAN EXPRESS | CHICAGO, IL
PROJECT: ENTERPRISE FRAUD DETECTION & RISK ANALYTICS PLATFORM
FEBRUARY 2023 – DECEMBER 2024

- Designed and implemented fraud detection APIs using Java Spring Boot and Python FastAPI microservices.
- Built Kafka data pipelines for real-time fraud scoring and anomaly detection across millions of transactions.
- Developed React.js dashboards for risk analytics and financial insights.
- Optimized PostgreSQL queries and caching, improving API response times by 40%.
- Integrated AWS Lambda, EC2, and RDS for scalable backend infrastructure.
- Automated CI/CD pipelines with GitHub Actions and Docker containers.
- Ensured system security through token-based authentication (OAuth2/JWT).
- Collaborated in Agile sprints, peer code reviews, and production releases.

SKILLS USED:

- **Programming Languages:** Java, Python, JavaScript, SQL
- **Frameworks:** Spring Boot, FastAPI, React.js
- **Cloud Platforms:** AWS (Lambda, EC2, RDS, S3)
- **Databases:** PostgreSQL, MySQL
- **Tools:** Kafka, Docker, GitHub Actions, Postman
- **Methodologies:** Agile/Scrum, CI/CD.

SOFTWARE ENGINEER | STATE FARM INSURANCE | ATLANTA, GA
PROJECT: CLAIMS AUTOMATION & POLICY MANAGEMENT SYSTEM
JANUARY 2022 – DECEMBER 2022

- Engineered RESTful microservices in Java Spring Boot for claims automation and provider management.
- Built React.js front-end modules for real-time claim status and agent dashboards.
- Streamlined ETL processes in Python, improving claims data accuracy by 30%.
- Migrated legacy APIs to AWS using EC2 and API Gateway for modern scalability.
- Developed database views and stored procedures in PostgreSQL for financial reporting.
- Implemented JUnit and PyTest test cases ensuring above 90% code coverage.
- Monitored API logs and performance metrics through AWS CloudWatch.
- Participated in Agile ceremonies, sprint reviews, and release planning.

SKILLS USED:

- **Programming Languages:** Java, Python, JavaScript, SQL
- **Frameworks:** Spring Boot, React.js
- **Cloud Platforms:** AWS (API Gateway, EC2, CloudWatch)
- **Databases:** PostgreSQL, MySQL
- **Tools:** Postman, JUnit, PyTest, Git
- **Methodologies:** Agile/Scrum, TDD

SOFTWARE ENGINEER | COSMICVENT SOFTWARE | HYDERABAD
PROJECT: HEALTHCARE DATA VISUALIZATION & DASHBOARD PLATFORM
DECEMBER 2020 – DECEMBER 2021

- Developed interactive healthcare dashboards using React.js and REST APIs.
- Implemented backend services in Python Flask and Java Spring Boot for data ingestion.
- Designed PostgreSQL schemas and indexing for optimized data access.
- Integrated data visualization libraries for KPI reporting and performance insights.
- Automated data synchronization jobs using Python scripts and CRON schedulers.
- Configured AWS S3 for secure document storage and backups.
- Delivered analytics modules reducing manual reporting time by 45%.
- Collaborated with product and QA teams to ensure timely sprint deliveries.

SKILLS USED:

- **Programming Languages:** Python, Java, JavaScript, SQL

- **Frameworks:** Flask, Spring Boot, React.js
- **Cloud Platforms:** AWS (S3, EC2)
- **Databases:** PostgreSQL, MySQL
- **Tools:** Git, Docker, Postman
- **Methodologies:** Agile/Scrum

PROJECTS

FAITH CHURCH APP | React.js, Firebase, Python (Flask)

- Built a full-stack web app for community event management, live sermon streaming, and donations.
- Integrated Firebase Authentication, Firestore, and Cloud Functions for real-time updates.
- Deployed serverless backend with Python Flask and optimized data sync latency by 25%.

SELF CHECK-IN SYSTEM | FastAPI, React.js, Stripe API, PostgreSQL

- Developed an automated check-in and payment system for hospitality use cases.
- Integrated Stripe API for secure payments and QR-based check-in validation.
- Deployed using AWS Lambda and S3 for cost-efficient scalability.

PARKING LOT SLOT RESERVATION SYSTEM | Node.js, Express, React.js, MySQL

- Designed an intelligent slot booking platform with live availability tracking.
- Implemented role-based access for admins and users with JWT authentication.
- Optimized backend queries and caching to handle 10K+ requests/day efficiently.

EDUCATION

MASTERS IN INFORMATION TECHNOLOGY MANAGEMENT   **GPA: 3.66**

INDIANA WESLEYAN UNIVERSITY, MERRILLVILLE, IN   JUNE 2023 – DECEMBER 2024