KAVYA SRI K

Software Engineer | +1 845-273-8851 | kavya051123k@gmail.com

PROFESSIONAL SUMMARY:

Software Engineer with 4+ years of experience designing enterprise-grade software, cloud-native architectures, and intelligent automation pipelines. Demonstrated ability to build scalable backend systems, secure RESTful APIs, and data-driven applications in healthcare, finance, and academic sectors. Proficient in Java, Python, Spring Boot, Django, and React.js. Hands-on with ML/AI integration using TensorFlow, GPT, LLMs, and NLP techniques to enhance user engagement and workflow efficiency. Adept in Agile methodologies, CI/CD processes, QA automation, and DevOps tools. Known for quick problem-solving, cross-functional collaboration, and delivering robust, high-performance software solutions.

TECHNICAL SKILLS:

- **Languages:** Java (8–17), Python, SQL, JavaScript (ES6+), TypeScript, Go
- **Frameworks/Libraries:** Spring Boot, Django, Flask, FastAPI, Celery, TensorFlow, GPT, NLTK, REST
- **Frontend:** React.js, Tailwind CSS, Material UI, Bootstrap, Chart.js, HTML5, CSS3
- **Databases:** PostgreSQL, MySQL, SQL Server, MongoDB, Redis, Cassandra, Oracle
- **Cloud Platforms:** AWS (EC2, Lambda, S3, RDS, API Gateway, DynamoDB, CloudWatch, ECS), Azure (Azure Data Factory, Databricks, Functions, API Gateway, DevOps), Apache Kafka, Snowflake
- **DevOps/CI-CD:** GitHub Actions, Maven, Jenkins, Terraform, Docker, Kubernetes, Bitbucket, SonarQube
- **Testing:** JUnit, PyTest, Postman, Selenium, Cypress, Swagger
- **Practices:** Microservices, CI/CD, SDLC, Agile (Scrum), TDD, BDD
- **Soft Skills:** Communication, Critical Thinking, Teamwork, Leadership, Analytical Reasoning, Adaptability, Decision Making, Ownership, Mentorship, Attention to Detail

PROFESSIONAL EXPERIENCE:

CVS Health, NY   **Apr 2024-Present**

Software Engineer

- Designed and implemented Spring Boot and Python RESTful APIs to support HIPAA-compliant healthcare applications, ensuring secure data transmission via OAuth2.0 protocols.
- Integrated GPT-based classification models to automate log triaging and incident classification, cutting response time by 40%.
- Optimized SQL Server queries, reducing query response times by 30% across high-volume endpoints.
- Developed Azure Functions to handle asynchronous event-driven tasks in the claims processing pipeline.
- Developed unit and integration tests using JUnit and PyTest, achieving 90%+ test coverage for backend components.
- Participated in Sprint ceremonies and collaborated with cross-functional teams under Agile/Scrum methodology.
- Conducted peer code reviews and contributed to CI/CD pipelines using Azure DevOps and GitHub Actions.
- Managed version control across services using Git branching strategy and handled production releases.
- Provided on-call production support, resolving high-priority incidents related to API failure and latency.

Deloitte, TX   **Sep 2023-Apr 2024**

Full Stack Engineer

- Designed Django REST APIs and React.js dashboards for real-time reporting of financial data across multiple regions.
- Migrated Kafka ingestion pipelines to AWS S3-based architecture, reducing operational overhead and improving fault tolerance.
- Integrated fraud detection APIs powered by pre-trained ML models and exposed predictions to dashboards for real-time alerts.
- Developed reusable microservices for transaction validation, file ingestion, and audit logging on AWS.
- Used Material UI and React Hooks to build modular, responsive frontend components with real-time updates.
- Enhanced backend reliability using Celery for asynchronous task management and Redis for caching.
- Integrated SonarQube for static code analysis, reducing technical debt and enforcing code quality standards.
- Created GitHub Actions workflows for linting, testing, and deployment, accelerating release cycles by 25%.
- Wrote API test suites with Postman and PyTest, identifying edge cases and reducing post-deployment bugs.
- Collaborated with data science teams to expose ML model results via secure APIs for fraud detection modules.
- Delivered sprint demos to stakeholders and documented system architecture for knowledge transfer.

Marist University, NY   **Nov 2021-May 2023**

Data Analyst

- Built Flask and Django pipelines to ingest, clean, and transform academic data stored in PostgreSQL.
- Created React.js dashboards with interactive data visualizations using Chart.js and Material UI for faculty use.
- Developed REST APIs to support analytics on student performance, attendance, and enrollment trends.
- Optimized slow-running SQL queries, reducing dashboard load time from 8s to under 2s.
- Built ML pipelines using TensorFlow to generate predictive insights on dropout risk, enabling early interventions.
- Automated data collection from third-party APIs and flat files, enhancing data freshness and consistency.
- Implemented exception handling and retry logic in data pipelines to ensure robustness.
- Documented REST endpoints and data dictionary to support system maintainability and onboarding.
- Conducted user acceptance testing (UAT) with administrative staff for dashboard usability improvements.
- Developed Python/Django-based backend services and ETL jobs to manage and analyze institutional data across student performance, attendance, and retention.

Infosys, Ind   **Jan 2020- Jun 2021**

Cloud Engineer

- Developed Java-based Spring Boot microservices for financial applications hosted on AWS EC2 and RDS.
- Created REST APIs supporting mobile banking features and ensured integration with existing legacy systems.
- Implemented Swagger documentation and versioned API endpoints for seamless consumer integration.
- Built Jenkins pipelines for unit testing, packaging, and deployment across dev, test, and prod environments.
- Applied optimization techniques to Java service logic, reducing API response latency by 30%.
- Built monitoring and alerting using CloudWatch, helping identify slow services and prevent downtime.
- Deployed Docker containers to streamline application deployment on cloud VMs.
- Wrote JUnit and Mockito test cases to ensure test-driven development and 95%+ code coverage.
- Assisted in migrating monolithic modules into microservices, improving modularity and deployment speed.
- Collaborated with DevOps teams to configure load balancers, security groups, and IAM policies for secure cloud access.

PROJECTS:

InsightPulse – AI Retail Dashboard:

Built a full-stack retail analytics platform using React.js and FastAPI with GPT-based Q&A capabilities. Enabled CSV-driven insights, KPI dashboards, and interactive charts. Integrated Prophet for revenue forecasting and developed RESTful APIs using Python, Pandas, and Scikit-learn.

Facial Recognition System:

Developed a real-time facial recognition solution using FaceNet and TensorFlow. Designed facial embedding models, integrated OpenCV workflows, and deployed the system for identity verification. Improved accuracy and reduced false positives for surveillance and authentication.

CERTIFICATION:

- Certified Microsoft Azure Data Engineer - Associate (DP-203)
- Microsoft Fundamentals of AI

EDUCATION:

- Master's in Information Systems from Marist University