Kyung Ho (Scott) Kang

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 github| in linkedin| website

EDUCATION

Master of Computer Science Candidate   **Jan 2025 - Present**
 University of Texas at Austin   *Austin, TX*
Bachelor of Science - Computer Science   **Aug 2018 - Dec 2023**
 Vanderbilt University   *Nashville, TN*

SKILLS

Programming Languages	Java	Python	C++	C#	C	JavaScript	MATLAB	Groovy	Kotlin
Technologies	MySQL	MongoDB	PostgreSQL	Firebase	Docker	Azure	AWS	Spring	Kafka	Hazelcast	Selenium	Angular	React.js	Numpy	Jenkins	Github Actions

EXPERIENCE

Visa   **Feb 2024 - Present**
Software Developer   *Austin, TX*
- Developed Visa Accept features enabling merchants to accept payments via tap-to-pay and pay-by-link through participating banking apps on mobile devices; led development of payment and refund endpoints and integrated with the Visa Developer Platform using MTLS and MLE
- Led development of the domain rule engine to enforce sales and dispute thresholds, integrating with Kafka for dispute events and onboarding services for seller-specific rules, leveraging caching to optimize performance
- Developed a complex dashboard API to calculate cumulative sales and amounts based on charge cycle, time zone, transaction stage, state, and type; designed the transaction history table schema and implemented automated audit tracking using Hibernate Envers
- Migrated legacy services to Spring Boot, introduced global exception handling, and updated configurations to align with modern tech stacks and internal standards
- Collaborated with architecture, security, infrastructure, and product teams to ensure API accessibility, cross-functional alignment, and comprehensive documentation using sequence diagrams, flowcharts, and Swagger
- Created a QA automation repository and simulator to streamline testing and ensure reliable payment flows

Software Test Engineer   *Austin, TX*
- Developed a comprehensive automation test framework for a settlement funds transfer management platform using TestNG, Cucumber, and Selenium, fully replacing manual testing, reducing errors, and accelerating deployment timelines

Stryker   **May 2023 - Aug 2023**
Software Engineer   *Dallas, TX*
- Implemented automated extraction of data from the surgical instrument using TCP sockets and API requests
- Designed a user-interactive GUI with a debug window, export menu, a real-time state table, and a customized summary table, increasing efficiency by 400 times and saving over 400 hours annually for test, service, and installation teams

NOTABLE PROJECTS

Hack Attack   **Jan 2025 - Jun 2025**
- Built an AI-powered chatbot UI using Streamlit and GPT-4 with RAG via ChromaDB to help DB architects generate Liquibase scripts, reducing ticket turnaround from one week to under a day
- Fine-tuned an embedding model using Azure OpenAI and LlamaIndex; applied prompt engineering with custom templates to reduce hallucinations and integrated the EMV Book PDF to generate context-aware responses and improve developer efficiency

Finance Manager   **May 2024 - Dec 2024**
- Developed a full-scale finance application with stock analysis, money management, and earnings calendar features using Spring Boot and Amazon RDS, deployed in a containerized Docker environment
- Implemented secure authentication with Keycloak and built a microservice architecture with Eureka-based service discovery, Config Server, and API Gateway
- Designed and prototyped a user-friendly, customizable UI using Figma and Angular

Vandy Market Place   **Aug 2023 - Dec 2023**
- Built a campus marketplace web app using React.js and Firebase, enabling Vanderbilt students to list items, browse with filters, authenticate via Google, and contact sellers through a user-friendly form

HONORS & ACTIVITIES

- Visa GenAI Ambassador, Hackathon Participant, Visa University Certificates (Kafka, Jenkins, Data), Boot Camp Mentor, Dean's List Honoree, Yonsei Summer Scholar, Korean Army Major General Award, ML Research Author, Competitive CrossFit Athlete