

# Kyung Ho (Scott) Kang

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[github](#) | [linkedin](#) | [website](#)

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

E

Visa

Feb 2024 - Present

*Software Developer*

*Austin, TX*

- Implemented RESTful backend APIs for Visa Accept payment/refund flows, enabling tap-to-pay and pay-by-link through partner banking apps; deployed in an active-active architecture with dual data centers and GTM/LTM load balancers to support rollout across 51 countries by 2026.
- Developed a domain rule engine integrating with Kafka as a Service for real-time dispute events and with onboarding services for seller-specific rules, improving read latency on cache hits to single-digit ms via Hazelcast.
- Built dashboard APIs to compute cumulative sales across charge cycles, time zones, and transaction states; designed the transaction history schema in MySQL with automated auditing and deployed schema migrations through Liquibase scripts.
- Migrated legacy Spring services to Spring Boot, introducing global exception handling and modernized configurations aligned with enterprise standards.
- Managed secure deployments across sandbox and production, troubleshooting release issues, conducting security assessments, and implementing salted HMAC hashing for Primary Account Number storage to ensure PCI compliance and data protection.

*Software Test Engineer*

*Austin, TX*

- Developed a comprehensive automation test framework for a settlement funds transfer management platform using TestNG, Cucumber, and Selenium, replacing 100% of manual testing, reducing errors, and accelerating deployment timelines.

Stryker

May 2023 - Aug 2023

*Software Engineer Intern*

*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.

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P

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.

E

Master of Computer Science Candidate (Online)

Jan 2025 - Present

University of Texas at Austin; *GPA: 4.0*

*Austin, TX*

Bachelor of Science - Computer Science

Aug 2018 - Dec 2023

Vanderbilt University; *GPA: 3.801*

*Nashville, TN*

H

A

- 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