

PROFILE SUMMARY

Software Developer (Java, Spring Boot) with production-deployed full-stack projects and 4 years commercial research experience. Built real-time financial dashboards and secure multi-role ordering systems using Spring Boot, PostgreSQL, Redis, and cloud deployment. Strong at translating business requirements into clean backend architecture and owning delivery end-to-end.

SKILLS SUMMARY

- **Languages:** Java, SQL, HTML5, CSS3
- **Frameworks:** Spring Boot, Spring Data JPA, Spring MVC, Hibernate
- **Databases:** PostgreSQL, MySQL, Redis
- **Tools:** Git/GitHub, Maven, Postman, AWS
- **Concepts:** RESTful APIs, Microservices, OOP, Agile/Scrum

SOFTWARE DEVELOPMENT PROJECTS

Stock Dashboard | <https://stock-heatmap-ak.vercel.app>

Tech stack: Java, Spring Boot | PostgreSQL, Redis | HTML5, CSS3, JavaScript, D3.js, Lightweight Charts

Infrastructure: Railway, Supabase, Upstash, Vercel

- Engineered a responsive financial data dashboard, capable of dynamically rendering real-time performance data and historical analytics for the entire S&P 500 index.
- Developed a Spring Boot backend with rate-limiting to safely consume external market data APIs (Finnhub, Yahoo Finance) without triggering 429 errors.
- Reduced full data ingestion time from 45 minutes to 10-15 minutes by implementing multi-threading with Spring Async, writing live updates to Redis cache immediately while persisting to PostgreSQL in the background.
- Designed interactive frontend visualizations, including a treemap grid and live-updating candlestick charts, using D3.js and Lightweight Charts.

Canteen Ordering System | <https://canteen-system-ak.vercel.app>

Tech stack: Java, Spring Boot (JPA, Security, REST APIs) | PostgreSQL | HTML5, CSS3, JavaScript, Stripe API

Infrastructure: Railway, Supabase, Vercel

- Collaboratively built an end-to-end school canteen ordering platform (6-person team) with separate customer, kitchen, and admin portals – covering ordering, fulfillment and analytics.
- Owned the payment and wallet module: designed and implemented Stripe top-ups, in-app balance management and automated end-of-day transaction logging.
- Secured application access using Spring Security (BCrypt hashing, role-based access control and protected payment flows) across the three user roles.
- Led the team's Git workflow, enforcing feature-branch strategy, pull-request reviews and clean code integration practices.

PROFESSIONAL EXPERIENCE

Career Transition - Software Development Trainee • Venturenix Lab, Hong Kong

Apr 2026 – Jul 2026

- Completed an intensive full-time (500+ hours) backend programme focused on Java, Spring Boot, REST APIs, SQL and cloud deployment.
- Designed and built production-deployed applications end-to-end, including relational database schemas, API contracts and cloud infrastructure.
- Applied Agile/Scrum practices across the development lifecycle from requirements through to deployment.

Senior Research Executive • Opinium Research, London UK

Aug 2025 – Mar 2026

- Owned end-to-end delivery of an account portfolio valued at £100k+ annually, managing multiple concurrent project lifecycles to schedule.
- Trained 20+ new joiners on survey scripting platforms, logic configuration and data-processing architectures.
- Served as primary contact on a few accounts, successfully resolving complex project queries.
- Mentored junior colleagues on technical problem-solving and delivery best practices.

Research Executive • Opinium Research, London UK

Nov 2023 – Jul 2025

- Acted as the go-to person for logic configuration and data workflows; troubleshoot survey logic blocks for the wider team.
- Coordinated an international programming team in Cape Town, defining technical specifications and managing cross-timezone delivery.

Junior Research Executive • DJS Research, Manchester UK

Jan 2022 – Oct 2023

- Took ownership of core modules across the full project lifecycle for small-to-medium research projects.
- Rapidly built technical proficiency in research platforms and data-handling processes.

EDUCATION

Venturenix Lab

Hong Kong

Full-Time Software Engineering Bootcamp

Apr 2026 – Jul 2026

- 14-week immersive programme focused on Java, Spring Boot, REST APIs, SQL, system design and cloud deployment.

Lancaster University

Lancaster, UK

Master of Science: Advanced Marketing Management (2:1)

2020 - 2021

Lancaster University

Lancaster, UK

Bachelor of Science: Marketing

2017 - 2020

Availability: Immediate