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## Profile

Motivated and versatile software engineer with practical experience across the full stack. Adept at developing robust solutions, from Java microservices to engaging React front-ends. I thrive on solving complex problems efficiently and delivering high-quality work under pressure. Committed to integrating strong engineering principles with practical business needs.

## Education

**Full Stack Development Program**, The Developer Academy Nov 2024 – Mar 2025  
*Immersive curriculum covering JavaScript, React, Node.js, Agile, TDD, and CI/CD. Successfully led a Scrum team project to deliver a production-ready web application.*

**BSc Physics (2:1 Hons)**, University of Nottingham Sep 2017 – Mar 2021  
*Dissertation focused on MATLAB simulation of quantum-dot electrostatic potentials.*

## Technical Skills

- **Languages:** Java, JavaScript/TypeScript, MATLAB, Dart
- **Frameworks:** Spring Boot, React, Next.js, Node.js, Flutter
- **Practices:** Agile (Scrum), TDD, CI/CD, Microservices, Git
- **Databases:** PostgreSQL, MySQL, MongoDB
- **Cloud & Ops:** AWS (EC2, S3, RDS), Kubernetes, Docker, Render
- **Styling:** Tailwind CSS

## Experience

**Software Developer**, Nutracheck Jul 2023 – Sep 2024

- Developed and integrated high-volume Java microservices with SQL databases.
- Streamlined deployment process by implementing CI/CD pipelines, achieving a 45% reduction in deployment time.
- Prevented production issues through authoring comprehensive integration tests.

**Software Developer Intern**, Sparta Global Jan 2023 – Apr 2023

- Enhanced existing Java business applications, applying SOLID principles for improved design.
- Actively participated in code reviews, sprint planning, and quality assurance cycles.

**Marketing Assistant (Part-time)**, Rodocodo Jan 2022 – Jun 2022

- Conducted market research and keyword analysis, contributing to a 30% increase in organic traffic.
- Collaborated directly with engineering teams to implement SEO-driven website improve-

ments.

## Selected Projects

### **Real-Time Messaging App** (2025) — *Next.js, Express, Socket.IO, MongoDB*

- Engineered a robust WebSocket layer successfully handling over 2,000 concurrent sessions.
- Implemented secure JWT authentication and reliable reconnection logic.

### **Portfolio Risk Prototype** (2024) — *Java, Spring, PostgreSQL*

- Developed models for Value at Risk (VaR) and Conditional Value at Risk (CVaR) metrics. Automated data ingestion using scheduled jobs.

### **Bank Account Manager** (2023) — *Java, JUnit*

- Built a Command Line Interface (CLI) application managing core bank account operations. Achieved high test coverage (95%+) using JUnit.