Alessandro Frondini

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Skills

Languages: Java, JavaScript, C#, HTML, CSS
Frameworks: React, React Native, Node.js, Express.js
Architecture: RESTful APIs, Full-stack development, Microservices
Databases: SQL, PostgreSQL, MySQL, SQLite
Cloud & DevOps: AWS, GCP, Git
Methodologies: Agile, Code optimization

About Me

Graduating this year in MSc Computer Science, I bring a unique combination of precision-focused problem-solving and collaborative drive. My background in dental technology developed my ability to understand and exceed customers expectations, while maintaining exceptionally high standards, skills I now want to apply into crafting clean and maintainable code. I thrive on turning complex challenges into learning experiences, whether optimizing processes or building new applications. My career transition demonstrates my ambitious drive and commitment to continuous growth, while my remote work experience has honed my ability to collaborate effectively and take full ownership of projects from ideation to execution.

Experience

Remote Service Representative
Recharge Health, Chiangmai, Thailand (Remote role in Manchester, UK)
August 2023 - Current

- Streamlined end-to-end device management processes, identifying and eliminating unnecessary complexity while maintaining quality standards
- Built and maintained comprehensive databases, demonstrating attention to detail and systematic problem-solving
- Collaborated virtually across teams for stock management and delivery coordination, showing reliability and transparency in remote work environments
- Took full ownership of troubleshooting and quality inspections, solving complex logistical challenges through structured, solution-oriented thinking
- Extensive experience working with an ERP SaaS system to manage logistics and stock movement.

Projects

- **Bookstock - Full-stack Web Application**
  Built a complete book store management system from ground up with AWS cloud infrastructure. Designed and implemented RESTful API architecture, secure user authentication, and optimized MySQL database queries for scalability. Full ownership of deployment pipeline and external service integrations.
  Java, JavaScript, React, MySQL, AWS, RESTful APIs, Postman

- **Appliance Store Manager - Web Application**
  Developed a comprehensive home appliance management system with complete CRUD functionality and secure user authentication. Implemented SQLite database design with optimized queries and responsive Bootstrap interface. Applied BCrypt password hashing and data validation for enterprise-level security standards.
  Java, HTML, CSS, Bootstrap, SQLite, BCrypt

- **FairPlay Music Streaming Platform - Full-stack Serverless Application**
  Developed an innovative music streaming platform using AWS serverless technologies to empower independent artists with affordable infrastructure. Designed and implemented scalable cloud architecture with AWS Lambda and DynamoDB, reducing operational costs by 99% compared to traditional hosting. Built a responsive React frontend with audio streaming capabilities and implemented comprehensive testing using Vitest and Testing Library. Conducted cost-benefit analysis against industry leaders (Spotify, Apple Music) demonstrating 97% cost efficiency at scale.
  AWS Lambda, DynamoDB, S3, React, JavaScript, Vitest, RESTful APIs

Education

MSc Computer Science
Manchester Metropolitan University
September 2024 - September 2025

- Extensive database planning and development using Java and SQLite with full CRUD operations. Advanced Object-Oriented Programming concepts and database design with Oracle SQL. Cloud enterprise full-stack development with Java backend, React frontend, and AWS cloud infrastructure. Binary Tree search algorithm implementation in C#.

Software Development Bootcamp
Northcoders, Manchester, UK
March 2023 - June 2023

- Intensive full-stack development program with hands-on experience in JavaScript, Node.js, Express.js, PostgreSQL, React, and RESTful API development. Advanced Git version control and agile methodologies. Project leadership experience with cross-functional team collaboration.

BSc (Honors) Dental Technology - *1st Class Honours*
Manchester Metropolitan University
September 2015 - June 2018