ROWAND MOHAMMAD

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EDUCATION

Master of Science - Machine Learning | Sep 2022 – Sep 2024
Royal Holloway University of London : Distinction | *London, UK*
Bachelor of Science - Computer Science | Sep 2019 – June 2022
Royal Holloway University of London : 2.1 | *London, UK*

EXPERIENCE

Technical Consultant | July 2023 – Oct 2024
The Software Institute, Deployed to IdentityE2E | *London, UK*

- Completed a 4-month **Full Stack Developer Bootcamp**, mastering modern web technologies and methodologies prior to deployment.
- Developed and improved key features for projects delivered to the **UK Home Office**, enhancing functionality and user experience.
- Built scalable back-end services using **Java Spring Boot**, following REST API best practices.
- Designed dynamic, user-friendly interfaces with **React.js**, improving usability and responsiveness for end-users in government applications.
- Enhanced application maintainability and type safety by implementing **TypeScript** across frontend and backend.
- Utilised and troubleshot **Jenkins** and **Docker** for CI/CD pipelines, reducing deployment time by 30%.
- Implemented and maintained infrastructure on **AWS** and **Kubernetes**, ensuring scalability of applications.
- Performed unit and integration tests using **JUnit** and **Selenium**, enhancing code reliability and quality.
- Collaborated with cross-functional teams in Agile settings, engaging in sprints and daily standups to align on deliverables and project goals using tools like **Slack** and **JIRA**.

PROJECTS

Gemnify: AI GitHub SaaS | (*Next.js, TypeScript, Prisma, Stripe, Vercel*)

- Developed an AI-driven SaaS for GitHub code analysis, providing context-rich Q&A to enhance productivity.
- Integrated **Google Gemini AI** and **PGVector** for advanced retrieval-augmented capabilities, enabling accurate query responses.
- Utilised **AssemblyAI** for audio transcription/summaries, creating actionable issues with precise timestamps.
- Implemented a credit-based billing model using **Stripe** and **Firebase**, ensuring scalable and secure payments.

AI Chatbot | (*Java, Spring Boot, React, OpenAI, Docker*)

- Built a full-stack chatbot integrating **OpenAI APIs** for conversational AI, leveraging **Java Spring Boot** to handle backend processes efficiently.
- Implemented **Docker** for containerisation, ensuring consistent environments across development and production, simplifying deployment pipelines.
- Optimised a dynamic user interface with **React**, delivering real-time interactions and enhancing user engagement.

Coffee Shop Customer Service Chatbot | (*Python, Hugging Face, RAG, React, Firebase, Pinecone*)

- Created an LLM-driven chatbot (**Python**, **Hugging Face**, **RunPod**) for real-time orders, menu queries, and secure interactions.
- Developed a modular agent-based system, employing Retrieval-Augmented Generation (**RAG**) for accurate responses.
- Integrated a Market Basket Analysis engine for product recommendations, boosting upselling opportunities.
- Built a **React Native** app connected to **Firebase** & **Pinecone**, delivering seamless front-end experiences.

Rownance: Finance Application | (*C#, React, TypeScript, ASP.NET Core, Tailwind CSS, FMP API*)

- Developed Rownance, enabling users to search stocks, manage portfolios, and perform financial analysis using **React** and **TypeScript**.
- Implemented backend services with **ASP.NET Core**, creating APIs for authentication and data management.
- Integrated **Financial Modeling Prep API** for real-time financial data, ensuring accuracy and timeliness.

TECHNICAL SKILLS

Languages: Java, Python, C#, JavaScript, TypeScript, SQL, HTML/CSS
Frameworks: Spring Boot, Hibernate, Next.js, React, React Native, Node.js, Flask
Libraries: Selenium, JUnit, Cucumber, Tailwind CSS, NumPy, Pandas, scikit-learn, Hugging Face
Developer Tools: Git, Docker, Jenkins, AWS, Stripe, Prisma, Postgres, PowerBI, Jira, BitBucket
Certifications: AWS Certified Solutions Architect (Associate), ISTQB Certified Tester (Foundational)