

Rayan Crasta - Back-end Engineer

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Location: Leeds, UK | [LinkedIn](#) | <http://rayancrasta.com> | [GitHub](#)

Visa: Graduate Visa till December 2026

Summary

Detail-oriented Back-end Engineer with a solid foundation in software development, particularly in building microservices and high-performance applications using Go. Skilled in implementing automation and enhancing system security within collaborative environments. Committed to driving innovation and continuously improving technical practices to meet dynamic business needs. Seeking to contribute to cutting-edge projects in financial crime compliance technology.

Work Experience

Primark - Retail Assistant

Nov 2024 – Present, UK

- Delivered exceptional customer service by assisting shoppers with inquiries, product selections, and transactions in a fast-paced retail environment.
- Efficiently handled point-of-sale transactions and resolved customer concerns to enhance the shopping experience.

Mint People - Front of House Staff & Kitchen Porter (Part Time)

May 2024 – Aug 2024, UK

- Provided customer service in restaurants and clubs, handling reservations, seating, and resolving inquiries.
- Supported kitchen operations through dishwashing, food prep, and maintaining cleanliness.

Hap Solutions - Festival and Bar Staff (Part Time)

June 2024 – Aug 2024, UK

- Delivered excellent customer service at festivals and events, managed bar operations.

Tata Consultancy Services – Assistant Systems Engineer (Full Time)

June 2021 – Aug 2023, Mumbai, India

- Developed bash scripts to automate the hardening process of over 100+ Linux servers for compliance based on CIS benchmarks, significantly reducing manual compliance hours.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect, identifying and mitigating critical vulnerabilities.
- Integrated third-party antimalware and data tokenization solutions into the existing architecture.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, enhancing application security through proactive vulnerability management.

Qustac Technologies Pvt. Ltd - Android Development Intern (Part Time)

Mar 2020 – Jan 2021, Mumbai, India

- Developed an Android application using Android Studio and Java, integrating TensorFlow Lite for real-time classification of explicit content.
- Streamlined image processing through a machine learning model for automatic actions upon detecting explicit content.

Projects

TweetOps: Twitter-like Tweet Ingestion and Search Backend [Blog](#) | [GitHub](#)

- Developed a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch.
- Managed a dataset of 500K tweets, categorized by language, utilizing Kafka for ingestion into Elasticsearch.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, ensuring real-time availability of data.
- Integrated a model for flagging profane tweets within the ingestion process.

MyShowSeat: Booking Service Backend [Blog](#) | [GitHub](#)

- Engineered a booking service backend prototype utilizing Go, Redis, and PostgreSQL.
- Designed booking logic for seat checks and payment verification, optimizing user experience during high traffic.
- Leveraged Go's concurrency for efficient processing and improved performance through Redis caching.

Debate Management System (Dissertation Project)

- Created a platform for managing structured debates, incorporating real-time feedback and gamification.
- Developed responsive UIs with React.js and backend logic using FastAPI, with PostgreSQL for authentication.
- Utilized Redis for real-time tracking and WebSockets for live updates during debate sessions.

Education

University of Leicester

MSc Cloud Computing (Sept 2023 - 2024)

Mumbai University

Bachelor of Engineering, Information Technology (2021), 9.42 CGPA

Skills

- **Languages:** Go, Python, FastAPI, Bash, JavaScript, Java
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infrastructure:** Linux, Docker, Kubernetes
- **Tools:** Apache Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Strong communication, collaborative team player, problem-solving, adaptability