

Rayan Crasta - Software Engineer

Email: rayancrasta95@gmail.com | **Contact:** +44 7767591427

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

Summary

Dynamic software engineer with a strong foundation in software development, application design, and database management. Proficient in translating user needs into system architecture and developing high-performance applications using modern technologies. Eager to contribute to collaborative team environments, driving innovation and delivering robust solutions. Seeking opportunities to leverage my skills in Golang development and contribute to impactful projects.

Work Experience

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

May 2024 – Aug 2024, UK

- Provided exceptional customer service in restaurants and clubs, managing reservations, seating, and resolving inquiries to enhance customer satisfaction.
- Supported kitchen operations through dishwashing, food preparation, and maintaining cleanliness.

Hap Solutions - Festival and Bar Staff (Part Time)

June 2024 – Aug 2024, UK

- Delivered outstanding customer service at festivals and events, managing bar operations efficiently.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Efficiently loaded and unloaded shipments while sorting items to optimize workflow and ensure timely deliveries.

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, saving over 900 hours of manual compliance efforts. Received “Best Team” award for this achievement.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect, identifying and mitigating critical vulnerabilities to enhance application security.
- Integrated third-party antimalware and data tokenization solutions into existing systems to improve security posture.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, identifying and addressing vulnerabilities to enhance overall application security.

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 and non-explicit images on mobile devices.
- Streamlined a machine learning model to facilitate automatic actions upon detecting explicit content within image files.

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, and ingested into Elasticsearch via Kafka for efficient search and retrieval.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, including pagination for enhanced user experience.
- Developed a FastAPI service for flagging profane tweets based on a model, ensuring safe search functionality.

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

- Created a booking service backend prototype utilizing Go, Redis, and PostgreSQL for seamless user experience.
- Implemented booking logic for seat checks, claiming, payment verification, and finalization, designed to handle high traffic efficiently.
- Leveraged Go's concurrency for asynchronous processing, ensuring data integrity with PostgreSQL transactional operations.
- Enhanced performance using Redis caching for seat availability, significantly improving scalability and response time.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, incorporating gamification, quizzes, and real-time feedback.
- Developed using React.js for responsive user interfaces and FastAPI for backend logic, with PostgreSQL for authentication and MongoDB for debate storage.
- Employed Redis for real-time tracking and WebSockets for live updates during debate sessions.
- Provided detailed post-debate analytics to assist educators in enhancing teaching strategies.

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, Django, Bash, JavaScript, Java, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infrastructure:** Linux, Docker
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Strong communication, teamwork, problem-solving, adaptability, and a proven hunger to learn new technologies.