

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 background in software development, system design, and database management. Skilled in collaborating with cross-functional teams, including design and data science, to gather requirements and deliver high-performance applications. Passionate about leveraging modern technologies to build scalable solutions and drive innovation in data analysis tools. Seeking to contribute to impactful projects in a forward-thinking engineering environment.

Work Experience

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

May 2024 – Aug 2024, UK

- Provided excellent customer service in restaurants and clubs, managing reservations, seating, and resolving inquiries effectively.
- Supported kitchen operations through dishwashing, food prep, and maintaining cleanliness, demonstrating strong teamwork and communication skills.

Hap Solutions - Festival and Bar Staff (Part Time)

June 2024 – Aug 2024, UK

- Delivered outstanding customer service at festivals and events, managing bar operations and ensuring a positive experience for attendees.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Efficiently loaded/unloaded shipments and sorted items to optimize workflow, showcasing attention to detail and efficiency.

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 900+ hours of manual compliance hours. Won “Best Team” award for the same.
- 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 existing software architecture.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, identifying and addressing critical vulnerabilities, thus enhancing 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 Android devices.
- Integrated a streamlined machine learning model, facilitating 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, demonstrating strong backend API development skills.
- Managed a dataset of 500K tweets, categorized by language, and ingested into Elasticsearch via Kafka for efficient data handling.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, ensuring real-time availability of ingested tweets.

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, showcasing skills in database technologies and backend logic.
- Implemented booking logic for seat checks, claiming, payment verification, and finalization for a seamless user experience during high traffic.
- Enhanced performance with Redis caching for seat availability, demonstrating knowledge of data optimization techniques.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, incorporating gamification and real-time feedback features.
- Built using React.js for responsive UIs and FastAPI for backend logic, with PostgreSQL for authentication and MongoDB for debate storage.
- Provided detailed post-debate analytics to help educators enhance teaching strategies, showcasing ability to integrate user feedback in development.

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, MATLAB
- **Databases:** PostgreSQL, MongoDB, Redis, SQL
- **Infra:** Linux, Docker
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Strong communication, teamwork, problem-solving, and adaptability