

# Rayan Crasta - Software Engineer I

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**Email:** [rayancrasta95@gmail.com](mailto:rayancrasta95@gmail.com) | **Contact:** +44 7767591427

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

## Summary

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Detail-oriented software engineer with experience in system design, software development, and database management. Passionate about creating high-performance applications and delivering quality solutions that meet customer needs. Eager to contribute to a collaborative team environment while continuously learning and growing in the tech industry.

## Work Experience

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### **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 effectively resolving inquiries.

### **Hap Solutions** - Festival and Bar Staff (Part Time)

*June 2024 – Aug 2024, UK*

- Delivered excellent 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 and maintain productivity.

### **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 time. Recognized with the “Best Team” award for this initiative.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect, identifying and mitigating critical vulnerabilities to enhance software security.
- Integrated third-party antimalware and data tokenization solutions into the existing architecture to improve security measures.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, identifying vulnerabilities and enhancing 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.
- Streamlined a machine learning model to facilitate automatic actions upon detecting explicit content within image files.

## Projects

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

- Designed and developed a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch, managing a dataset of 500K tweets.
- Implemented user and tweet search functionalities, including pagination, and ensured real-time tweet availability through Elasticsearch.

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, implementing seamless booking logic for high traffic scenarios.
- Enhanced performance with Redis caching and incorporated JWT token-based authentication for secure service access.

#### **Debate Management System (Dissertation Project)**

- Designed a platform for managing structured debates in academic settings, utilizing React.js for responsive UIs and FastAPI for backend logic.
- Integrated Redis for real-time tracking and WebSockets for live updates during debate sessions, providing detailed post-debate analytics.

## **Education**

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### **University of Leicester**

*MSc Cloud Computing (Sept 2023 - 2024)*

### **Mumbai University**

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

## **Skills**

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- **Languages:** Java, Go, Python, FastAPI, Django, Bash, JavaScript, Java, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infra:** Linux, Docker, Kubernetes, Openshift
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Strong problem-solving abilities, collaborative team player, solid communication skills, customer-centric approach, attention to detail, eagerness to learn.