

# Rayan Crasta - Software Engineer

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## Summary

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Motivated software engineer with a passion for crafting efficient and innovative technical solutions. Experienced in system design, software development, and database management, with a strong focus on customer-centricity and operational resilience. Eager to contribute to a collaborative team environment while advocating for quality practices and continuous improvement. Seeking to leverage technical skills to help drive the mission of Compare the Market.

## Work Experience

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### **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.

### **Royal Mail** – Warehouse Operative (Part Time)

*Nov 2023 – Dec 2023, Northampton, UK*

- Loaded/unloaded shipments and sorted items efficiently to optimize workflow.

### **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, enhancing application security.
- Integrated third-party antimalware and data tokenization solutions into the existing architecture.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, identifying and addressing critical vulnerabilities.

### **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 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](#)

- Developed a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and

Elasticsearch, focusing on optimizing performance and user experience.

- Managed a dataset of 500K tweets, categorized by language, and ingested into Elasticsearch via Kafka for real-time accessibility.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, including pagination for efficient data retrieval.

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL with a focus on high-quality production code and seamless user experiences.
- Implemented booking logic for seat checks, claiming, payment verification, and finalization, ensuring reliability during high traffic.
- Enhanced performance with Redis caching for seat availability, reducing database calls and improving scalability.

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

- Designed a platform for managing structured debates in academic settings, incorporating gamification, quizzes, and real-time feedback.
- 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.

### **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:** 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:** Customer-Centric Mindset, Collaborative Teamwork, Continuous Improvement, Mentorship, Problem Solving, Adaptability