

# Rayan Crasta - Software Engineer

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## Summary

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Enthusiastic software engineer with a solid foundation in software development, system design, and database management. Eager to contribute to innovative software solutions while gaining hands-on experience in various programming languages. Committed to delivering high-quality results, enhancing operational efficiency, and driving collaboration within teams. Actively seeking an apprenticeship role to further develop skills 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 excellent customer service in restaurants and clubs, handling reservations, seating, and resolving inquiries with effective communication.
- Supported kitchen operations through dishwashing, food prep, and maintaining cleanliness, demonstrating organizational skills.

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

*June 2024 – Aug 2024, UK*

- Delivered exceptional customer service at festivals and events, managing bar operations and ensuring a pleasant experience for patrons.

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

*Nov 2023 – Dec 2023, Northampton, UK*

- Loaded/unloaded shipments and sorted items efficiently to optimize workflow while working collaboratively with team members.

### **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. Recognized with the “Best Team” award for the initiative.
- 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, identifying and addressing critical vulnerabilities, thus 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.
- 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, showcasing ability to manage and support software projects.
- Managed a dataset of 500K tweets, categorized by language, and ingested into Elasticsearch via Kafka, enhancing operational efficiency.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, including pagination, demonstrating problem-solving skills.

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, ensuring a seamless user experience during high traffic.
- Implemented booking logic for seat checks, claiming, payment verification, and finalization, focusing on user support and system upgrades.

## **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
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infra:** Linux, Docker, Kubernetes, Openshift
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Communication, Team Collaboration, Organizational Skills, Problem-Solving, Self-Motivation, Enthusiasm for Learning