

# Rayan Crasta - Software Engineer

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## Summary

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Dynamic software engineer with proven experience in Python development, system design, and software management. Eager to leverage coding skills and technical expertise to build high-performance applications within collaborative and innovative environments. Committed to driving sustainability initiatives and delivering top-quality solutions. Seeking to contribute to impactful projects 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, handling reservations, seating, and effectively 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 high-quality customer service at festivals and events while managing bar operations efficiently.

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

*Nov 2023 – Dec 2023, Northampton, UK*

- Loaded/unloaded shipments and sorted items efficiently to optimize workflow in a fast-paced environment.

### **Tata Consultancy Services** – Assistant Systems Engineer (Full Time)

*June 2021 – Aug 2023, Mumbai, India*

- Developed and optimized 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 and winning the “Best Team” award.
- Conducted in-depth 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 architecture to enhance system security.
- Executed manual web application security testing utilizing OWASP ZAP and Burpsuite, addressing critical vulnerabilities to bolster 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 machine learning model implementation 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](#)

- Created 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 real-time search capabilities.
- Developed user and tweet search functionalities, ensuring immediate availability of ingested tweets.

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

- Designed a booking service backend prototype using Go, Redis, and PostgreSQL, implementing booking logic for seat checks and payment verification.
- Utilized Go's concurrency for asynchronous processing, ensuring data integrity and enhancing performance with Redis caching.

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

- Developed 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.

## **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:** Python, Go, 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:** Excellent relationship management, effective communication, collaboration, and problem-solving skills.