

# Rayan Crasta - Software Engineer

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## Summary

Dynamic software engineer with over 2 years of experience in developing high-performance applications, particularly using Go. Proficient in system design, API integration, and database management, with a strong focus on scalability and elegant architecture. Passionate about delivering top-quality solutions and driving innovation in collaborative team environments. Seeking to contribute to a dedicated team in the payments domain while growing professionally.

## Work Experience

### 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 the existing architecture.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, identifying and addressing critical vulnerabilities to enhance application security.
- Collaborated with cross-functional teams to design and implement scalable microservices architecture.

### 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

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

- Developed 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.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, including pagination and real-time search capabilities.

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL.
- Implemented booking logic for seat checks, claiming, payment verification, and finalization, ensuring a seamless user experience during high traffic.
- Incorporated JWT token-based authentication for secure service access.

### 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.

## 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
- **Databases:** PostgreSQL, MongoDB, Redis, DynamoDB
- **Infra:** Linux, Docker, AWS (EKS)
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana

- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP

## **Additional Experience**

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

*May 2024 – Aug 2024, UK*

- Provided customer service in restaurants and clubs, handling reservations and inquiries.

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

*June 2024 – Aug 2024, UK*

- Delivered excellent customer service at festivals and events.

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

*Nov 2023 – Dec 2023, Northampton, UK*

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