

# Rayan Crasta - Software Engineer

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## Summary

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Dynamic software engineer with a strong background in software design, development, and database management. Proficient in Java and experienced with Spring Boot, I am eager to apply my technical skills in developing clean, elegant, and reusable code. Passionate about driving innovation in collaborative environments and dedicated to delivering high-impact solutions while upholding best practices. 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, effectively managing reservations, seating, and resolving inquiries to enhance guest experiences.
- Supported kitchen operations through dishwashing, food preparation, and maintaining cleanliness, showcasing a commitment to teamwork and service excellence.

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

*June 2024 – Aug 2024, UK*

- Delivered outstanding customer service at festivals and events, managing bar operations and ensuring a positive customer experience through effective communication and problem-solving.

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

*Nov 2023 – Dec 2023, Northampton, UK*

- Loaded and unloaded shipments, sorted items efficiently to optimize workflow, demonstrating strong organizational skills and attention to detail.

### **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 this initiative.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect, identifying and mitigating critical vulnerabilities, thereby enhancing application security.
- Integrated third-party antimalware and data tokenization solutions into existing architectures, ensuring robust security measures.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, identifying vulnerabilities and implementing solutions to enhance overall 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, demonstrating innovation in application development.

## 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.
- Managed and categorized a dataset of 500K tweets for real-time search capabilities using Elasticsearch, ensuring immediate availability of ingested data.
- Created user and tweet search functionalities with pagination and developed a FastAPI service for flagging profane tweets, prioritizing user safety.

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, implementing complex booking logic for seamless user experiences during high traffic.
- Utilized concurrency in Go for asynchronous processing, maintaining data integrity and enhancing performance with Redis caching.

### **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, Java, JavaScript, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infrastructure:** Linux, Docker, Kubernetes
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Strong communication, teamwork, problem-solving, adaptability, attention to detail, customer-focused mindset