

# Rayan Crasta - Software Engineer

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## Summary

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Dynamic software engineer with a solid foundation in system design, software development, and database management. Eager to leverage technical skills in building high-performance applications and delivering top-quality solutions in collaborative environments. Committed to enhancing user experiences and driving innovation through effective problem-solving and attention to detail. Seeking to contribute to a forward-thinking team where I can grow professionally and make a meaningful impact 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 handling reservations, seating, and resolving inquiries with a focus on customer satisfaction.
- Supported kitchen operations through dishwashing, food prep, and maintaining cleanliness, demonstrating strong teamwork and communication skills.

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

*June 2024 – Aug 2024, UK*

- Delivered excellent customer service at festivals and events, managing bar operations and ensuring a positive experience for attendees.

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

*Nov 2023 – Dec 2023, Northampton, UK*

- Efficiently loaded/unloaded shipments and sorted items to optimize workflow, showcasing strong attention to detail and organizational skills.

### **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 outstanding contributions.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect, identifying and mitigating critical vulnerabilities, which enhanced application security.
- Integrated third-party antimalware and data tokenization solutions into existing architecture, improving overall system security and performance.
- Performed manual web application security testing using OWASP ZAP and Burpsuite, addressing critical vulnerabilities and ensuring the quality of applications.

### **Qustac Technologies Pvt. Ltd** - Android Development Intern (Part Time)

*Mar 2020 – Jan 2021, Mumbai, India*

- Developed an Android application using Android Studio and Java, incorporating TensorFlow Lite for real-time classification of explicit and non-explicit images, showcasing an ability to innovate and solve real-world problems.

- Integrated a streamlined machine learning model to facilitate automatic actions upon detecting explicit content within image files, demonstrating initiative and creativity.

## 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, enhancing skills in full-stack development and microservices architecture.
- Managed a dataset of 500K tweets, categorized by language, and ingested into Elasticsearch via Kafka for real-time search capabilities.
- Created user and tweet search functionalities, including pagination, focusing on user experience and performance.

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

- Developed 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, 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 and real-time feedback using React.js and FastAPI.
- Utilized PostgreSQL for authentication and MongoDB for debate storage, demonstrating a strong understanding of database management.

## 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
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Problem-solving, Attention to detail, Collaboration, Adaptability, Customer-focused mindset