

# Rayan Crasta - Software Developer Intern

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## Summary

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Enthusiastic software developer with a solid foundation in system design, software development, and database management. Eager to contribute innovative solutions and collaborate with a team of professionals to address challenging problems in the tech industry. Committed to continuous learning and professional growth through hands-on experience and project involvement.

## 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 resolving inquiries with attention to detail.
- Supported kitchen operations by maintaining cleanliness and assisting in food preparation, demonstrating a proactive approach in a team environment.

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

*June 2024 – Aug 2024, UK*

- Delivered outstanding customer service at festivals and events, effectively managing bar operations and collaborating with team members.

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

*Nov 2023 – Dec 2023, Northampton, UK*

- Loaded and unloaded shipments while sorting items efficiently, optimizing workflow through effective teamwork.

### **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 efforts. 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.
- Integrated third-party antimalware and data tokenization solutions into existing architecture, enhancing overall system security.
- Executed manual web application security testing using OWASP ZAP and Burpsuite, identifying and addressing significant vulnerabilities, thus improving 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, showcasing problem-solving skills and attention to detail.
- Streamlined machine learning model integration 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, demonstrating strong programming skills and innovative thinking.
- Managed a dataset of 500K tweets, categorized by language and ingested into Elasticsearch via Kafka to facilitate real-time search capabilities.
- Implemented user and tweet search functionalities with pagination, enhancing user experience and performance.

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, focusing on a seamless user experience during high traffic.
- Employed Go's concurrency for asynchronous processing while maintaining data integrity, showcasing initiative and technical expertise.

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

- Designed a platform for managing structured debates in academic settings, incorporating gamification 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.
- Utilized Redis for real-time tracking and WebSockets for live updates during debate sessions.

## 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, Java, JavaScript, Bash
- **Frameworks:** FastAPI, Django, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infrastructure:** Linux, Docker, Kubernetes, Openshift
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP

## Soft Skills

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- Strong attention to detail and problem-solving abilities
- Excellent collaboration and communication skills
- Initiative and a proactive approach to tasks
- Eagerness to learn and adapt in a dynamic environment