

# Rayan Crasta - Backend Software Engineer

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## Summary

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Detail-oriented backend software engineer with expertise in Python and a strong foundation in software development, system design, and database management. Committed to building high-performance applications and enhancing existing systems with a focus on security and compliance. Seeking to leverage technical skills in a dynamic, growth-oriented tech startup environment, contributing to innovative AI-driven solutions.

## Work Experience

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### **Primark** - Retail Assistant

*Nov 2024 – Present, UK*

- Delivered exceptional customer service by assisting shoppers with inquiries and product selections in a fast-paced retail environment.
- Maintained a visually appealing and organized sales floor, ensuring stock levels were replenished and displays adhered to company standards.
- Efficiently handled point-of-sale transactions and resolved customer concerns to enhance the shopping 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, seating, and 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 excellent customer service at festivals and events, managed bar operations.

### **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, saving 900+ hours of manual compliance work. Awarded “Best Team” 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 the existing architecture.
- Performed manual web application security testing using OWASP ZAP and Burpsuite, enhancing application security by addressing critical vulnerabilities.

### **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.
- 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](#)

- Designed and implemented a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch.
- Managed a dataset of 500K tweets, enabling real-time search and immediate availability of ingested tweets.
- Developed user and tweet search functionalities with PostgreSQL and Elasticsearch, including pagination.

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

- Built a booking service backend prototype using Go, Redis, and PostgreSQL, optimizing booking logic and payment verification.
- Enhanced performance through Redis caching, reducing database calls and improving scalability.

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

- Designed a platform for managing structured debates in academic settings, using React.js for responsive UIs and FastAPI for backend logic.
- Implemented real-time tracking and live updates during debate sessions with Redis and WebSockets.

## 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, Bash, JavaScript, Java, Django, ReactJS
- **Databases:** PostgreSQL, Redis
- **Infra:** Linux, Docker, Kubernetes
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Strong problem-solving abilities, effective communication, teamwork, adaptability, attention to detail