

# Rayan Crasta - Software Developer

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**Email:** [rayancrasta95@gmail.com](mailto:rayancrasta95@gmail.com) | **Contact:** +44 7767591427

**Location:** Leeds, UK | [LinkedIn](#) | <http://rayancrasta.com> | [GitHub](#)

## Summary

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Dedicated software developer skilled in application development, system design, and database management. Committed to driving innovation and delivering efficient solutions in collaborative team environments. Eager to contribute to community-focused projects and enhance user experiences through effective software solutions. Seeking a challenging role to further develop technical skills and make a meaningful impact.

## Work Experience

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

*May 2024 – Aug 2024, UK*

- Provided excellent customer service in restaurants and clubs, efficiently handling reservations, seating, and inquiries.
- Supported kitchen operations through dishwashing, food prep, and maintaining cleanliness, demonstrating adaptability in a fast-paced 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 ensuring a positive guest experience.

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

*Nov 2023 – Dec 2023, Northampton, UK*

- Loaded/unloaded shipments and sorted items efficiently to optimize workflow, showcasing a methodical approach to tasks.

### **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. Earned the “Best Team” award for the 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.
- Conducted 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 in 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.
- Managed a dataset of 500K tweets, categorized by language, and ingested into Elasticsearch via Kafka.
- Implemented real-time tweet search functionalities and incorporated a FastAPI service for flagging profane tweets.

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL.
- Implemented seamless booking logic and utilized Redis caching to enhance performance and scalability.

## **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.

## **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, JavaScript, Java, ReactJS
- **Web Development:** HTML, CSS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infrastructure:** Linux, Docker, Kubernetes, Openshift
- **Tools:** Kafka, Elasticsearch, JIRA
- **Soft Skills:** Problem solving, adaptability, empathy, proactive learning, attention to detail

## **Additional Skills**

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- Familiarity with Azure cloud-based platforms and resources.
- Understanding of APIs and handling data in JSON and XML formats.
- Basic knowledge of mobile app development and low-code solutions.