

# Rayan Crasta - Software Engineer

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

## Summary

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Enthusiastic software engineer with a strong foundation in data engineering and system design. Skilled in developing and maintaining data pipelines, database management, and automating workflows. Passionate about using technology to drive impactful solutions in a collaborative environment. Seeking a role to contribute to a data-driven team that prioritizes customer needs and innovation.

## Work Experience

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**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.

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

*Nov 2023 – Dec 2023, Northampton, UK*

- Loaded/unloaded shipments and sorted items efficiently to optimize workflow.

**Tata Consultancy Services** – Assistant Systems Engineer (Full Time)

*June 2021 – Aug 2023, Mumbai, India*

- Developed bash scripts to automate processes for over 100+ Linux servers, enhancing compliance and saving 900+ hours of manual effort. Recognized with the “Best Team” award for this initiative.
- Conducted security analysis on Angular and Spring Boot codebases using tools like Checkmarx and Fortify WebInspect, identifying and mitigating critical vulnerabilities.
- Integrated third-party antimalware and data tokenization solutions, improving security architecture.
- Performed manual web application security testing with OWASP ZAP and Burpsuite, identifying and addressing vulnerabilities to enhance overall 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, incorporating TensorFlow Lite for real-time classification of explicit and non-explicit images.
- Integrated a machine learning model to trigger automatic actions based on detected content.

## Projects

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**TweetOps: Twitter-like Tweet Ingestion and Search Backend** [Blog](#) | [GitHub](#)

- Developed a backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch to manage and search a dataset of 500K tweets.
- Utilized Elasticsearch for real-time search capabilities, implementing user and tweet search

functionalities.

- Created a FastAPI service for flagging profane tweets, enhancing content safety during ingestion.

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

- Developed a booking service backend utilizing Go, Redis, and PostgreSQL, focusing on seamless user experience during high traffic.
- Employed Go's concurrency for efficient processing and enhanced performance through Redis caching.

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

- Designed a platform for managing structured debates, implementing features for gamification and real-time feedback using React.js and FastAPI.
- Utilized PostgreSQL for user authentication and MongoDB for data storage, enhancing the user experience with real-time updates via 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, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Cloud & Infra:** Docker, Kubernetes, Linux
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Strong communicator, problem solver, collaborative team player, adaptable, detail-oriented