

Rayan Crasta - Software Engineer

Email: rayancrasta95@gmail.com | **Contact:** +44 7767591427

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

Summary

Dynamic software engineer with a strong foundation in Python development, system design, and database management. Eager to leverage technical skills in building high-performance applications and API solutions while delivering quality and innovative outcomes in collaborative team environments. Seeking opportunities to contribute to transformative software solutions and enhance user experiences in the tech industry.

Work Experience

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

May 2024 – Aug 2024, UK

- Provided customer service in restaurants and clubs, managing reservations, seating, and resolving inquiries efficiently.
- Supported kitchen operations through dishwashing, food preparation, and maintaining cleanliness.

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 smooth experience for attendees.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

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

Tata Consultancy Services – Assistant Systems Engineer (Full Time)

June 2021 – Aug 2023, Mumbai, India

- Developed and maintained Python 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 contributions.
- 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 architectures, enhancing security measures.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, identifying and addressing vulnerabilities to improve 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, enhancing user safety.
- Streamlined machine learning models to facilitate automatic actions upon detecting explicit content within image files.

Projects

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 for efficient querying.
- Implemented user and tweet search functionalities using PostgreSQL and Elasticsearch, ensuring real-time data availability.
- Developed a FastAPI service for flagging profane tweets based on a model, integrated into the ingestion process for safe search.

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

- Created a booking service backend prototype using Go, Redis, and PostgreSQL, enabling seamless user experience during high traffic.
- Implemented booking logic for seat availability checks, payment verification, and finalization, ensuring data integrity and performance.
- Enhanced performance with Redis caching, reducing database calls and improving scalability.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, incorporating gamification, quizzes, 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.
- Provided detailed post-debate analytics to help educators enhance teaching strategies.

Education

University of Leicester

MSc Cloud Computing (Sept 2023 - 2024)

Mumbai University

Bachelor of Engineering, Information Technology (2021), 9.42 CGPA

Skills

- **Languages:** Python, Go, FastAPI, Django, Bash, JavaScript, Java, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infrastructure:** Linux, Docker
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Problem-solving, Communication, Team Collaboration, Adaptability, Attention to Detail, Critical Thinking