

Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer with a robust foundation in system design, software development, and database management. Eager to leverage technical expertise to build high-performance applications and contribute to innovative solutions in collaborative team environments. Seeking opportunities to own the full development lifecycle and drive impactful projects within the tech industry.

Work Experience

Tata Consultancy Services – Assistant Systems Engineer (Full Time)

June 2021 – Aug 2023, Mumbai, India

- Developed bash scripts to automate compliance hardening for over 100 Linux servers, saving 900+ hours of manual effort, and earning the “Best Team” award.
- 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 data security.
- Performed manual web application security testing with OWASP ZAP and Burpsuite, improving overall application security by addressing identified 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, incorporating TensorFlow Lite for real-time classification of explicit and non-explicit images on Android devices.
- Streamlined a machine learning model to facilitate automatic actions upon detecting explicit content within images, improving user experience and safety.

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.
- 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, managing bar operations and ensuring a positive 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.

Projects

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

- Developed a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch, managing a dataset of 500K tweets.
- Implemented user search functionalities with PostgreSQL and Elasticsearch, including pagination and real-time tweet search capabilities.
- Integrated a FastAPI service for flagging profane tweets, ensuring safe search functionality.

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL to handle high traffic during booking processes.
- Utilized Go's concurrency for asynchronous processing while ensuring data integrity and performance through Redis caching and PostgreSQL transactions.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, built with React.js and FastAPI, and utilizing PostgreSQL and MongoDB for data storage.
- Incorporated Redis for real-time tracking and WebSockets for live updates during debates, providing educators with analytics to 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, JavaScript, Java, FastAPI, Django, Bash, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Cloud Technologies:** Docker, Linux
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Strong communication, team collaboration, problem-solving, adaptability, time management