

Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer with experience in system design, software development, and database management. Proficient in Golang and eager to apply technical skills in building robust, scalable, and secure applications. Committed to delivering top-quality solutions while collaborating effectively with cross-functional teams. Seeking to contribute to innovative projects in the FinTech space that enhance user transparency and control.

Work Experience

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, 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 the hardening process of over 100+ Linux servers for compliance based on CIS benchmarks, saving 900+ hours of manual compliance efforts 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 architecture, enhancing security measures.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, identifying and addressing vulnerabilities to bolster application security.
- Collaborated with teams to understand requirements and translate them into technical objectives, contributing to project success.

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 on Android devices.
- Streamlined the integration of a machine learning model 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, demonstrating expertise in Golang and microservice architecture.
- Managed a dataset of 500K tweets, categorized by language, ingested into Elasticsearch via Kafka for efficient data retrieval.
- Implemented user and tweet search functionalities with PostgreSQL and Elasticsearch, ensuring robust performance and user experience.

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, focusing on scalability and performance during high traffic.
- Implemented booking logic ensuring seamless user experience while maintaining data integrity using PostgreSQL's transactional operations.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, utilizing React.js for responsive UIs and FastAPI for backend logic, with PostgreSQL for authentication and MongoDB for debate storage.
- Provided real-time tracking and live updates during debate sessions using Redis and WebSockets, enhancing user engagement and analysis.

Education

University of Leicester

MSc Cloud Computing (Sept 2023 - 2024)

Mumbai University

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

Skills

- **Languages:** Go, Python, FastAPI, Django, Bash, JavaScript, Java, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infrastructure:** Linux, Docker, Terraform
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, gRPC
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Strong communication, problem-solving, adaptability, teamwork, and attention to detail.