

Rayan Crasta - Software Engineer

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Summary

Passionate software engineer with a solid foundation in system design, software development, and database management. Eager to leverage technical skills to develop innovative software solutions, contributing to collaborative team efforts and enhancing user experiences. Committed to continuous learning and professional growth within the tech industry.

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, managing reservations, seating, and addressing inquiries effectively.
- Assisted kitchen operations through dishwashing, food prep, and maintaining a clean work environment.

Hap Solutions - Festival and Bar Staff (Part Time)

June 2024 – Aug 2024, UK

- Delivered outstanding customer service at festivals and events, overseeing bar operations and engaging with patrons.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Efficiently loaded and unloaded shipments while sorting items 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 work. 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 to enhance application security.
- Integrated third-party antimalware and data tokenization solutions into existing architectures, improving security measures.
- Performed manual web application security testing with OWASP ZAP and Burpsuite, identifying and addressing vulnerabilities to strengthen application defenses.

Qustac Technologies Pvt. Ltd - Android Development Intern (Part Time)

Mar 2020 – Jan 2021, Mumbai, India

- Developed an Android application using Android Studio and Java, successfully integrating TensorFlow Lite for real-time classification of explicit and non-explicit images.
- Implemented a streamlined machine learning model to automate actions upon detecting explicit content within images.

Projects

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

- Created a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch, managing a dataset of 500K tweets for efficient search functionality.
- Developed user and tweet search features with PostgreSQL and Elasticsearch, ensuring real-time availability of tweets.

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

- Designed a booking service backend using Go, Redis, and PostgreSQL, implementing robust booking logic and ensuring a seamless user experience.
- Enhanced performance through Redis caching and established secure service access via JWT token-based authentication.

Debate Management System (Dissertation Project)

- Developed a platform for managing structured debates, incorporating gamification and real-time feedback using React.js and FastAPI.
- Provided detailed analytics post-debate to support educators in refining 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:** Go, Python, FastAPI, Django, Bash, JavaScript, Java, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infrastructure:** Linux, Docker, Kubernetes, Openshift
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Excellent communication, teamwork, problem-solving, adaptability, and a strong willingness to learn