

Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer with a strong foundation in system design, software development, and database management. Proficient in developing high-performance applications utilizing modern technologies. Eager to take ownership of the full development lifecycle and contribute to impactful projects in collaborative team environments. Seeking to leverage my technical skills to drive innovation and deliver quality solutions in a fast-paced 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 resolving inquiries effectively.
- Supported kitchen operations through dishwashing, food prep, and maintaining cleanliness, contributing to a positive team environment.

Hap Solutions - Festival and Bar Staff (Part Time)

June 2024 – Aug 2024, UK

- Delivered outstanding customer service at festivals and events, efficiently managing bar operations and ensuring a high-quality guest experience.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Loaded and unloaded shipments while sorting items efficiently to optimize workflow and maintain operational efficiency.

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 time; recognized with the “Best Team” award.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect, identifying and mitigating critical vulnerabilities, ensuring robust software security.
- Integrated third-party antimalware and data tokenization solutions into existing architecture, enhancing system resilience.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, identifying and addressing vulnerabilities to enhance 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, demonstrating proficiency in mobile app development and machine learning.

Projects

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

- Developed a scalable backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch, managing a dataset of 500K tweets for efficient ingestion and real-time search capabilities.
- Implemented user and tweet search functionalities and developed a FastAPI service for flagging inappropriate content,

ensuring a safe user experience.

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

- Designed a robust booking service backend using Go, Redis, and PostgreSQL, implementing complex booking logic that ensures seamless user experiences during high traffic.
- Utilized Go's concurrency for efficient processing and incorporated JWT token-based authentication for secure service access.

Debate Management System (Dissertation Project)

- Created a platform for managing structured debates in academic settings using React.js for responsive UIs and FastAPI for backend logic, with PostgreSQL for user authentication and MongoDB for debate storage.
- Leveraged Redis for real-time tracking and WebSockets for live updates during debate sessions, providing detailed analytics for educators.

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, JavaScript, Java, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infra:** Linux, Docker, Cloud Technologies
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP

Soft Skills

- Strong problem-solving abilities
- Effective communication skills
- Team collaboration and adaptability
- Attention to detail
- Time management and organization