

Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer skilled in system design, software development, and database management. Eager to leverage technical skills to develop scalable and resilient solutions in collaborative environments, ensuring high-quality applications that exceed user expectations. Committed to continuous learning and adapting to new challenges in 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, effectively handling reservations, seating, and inquiries to enhance guest experiences.
- Supported kitchen operations through dishwashing, food preparation, and maintaining cleanliness, demonstrating teamwork and attention to detail.

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 welcoming environment for attendees.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Loaded and unloaded shipments, sorted items efficiently, and contributed to optimizing workflow within a team environment.

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 hours. Won “Best Team” award for the same.
- 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 application security and resilience.
- Conducted manual web application security testing using OWASP ZAP and Burp Suite, identifying and addressing critical vulnerabilities to improve overall 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, showcasing problem-solving and innovation.
- Integrated a streamlined 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](#)

- Designed and developed a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch, ensuring scalability and performance.
- Managed a dataset of 500K tweets, categorized by language, ingested into Elasticsearch via Kafka for real-time search capabilities.
- Implemented user and tweet search functionalities, including pagination, to enhance user experience.

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, implementing booking logic for a seamless user experience during high traffic.
- Utilized Go's concurrency for asynchronous processing, maintaining data integrity with PostgreSQL transactional operations and row-level locking.
- Enhanced performance with Redis caching for seat availability, reducing database calls and improving scalability while incorporating JWT token-based authentication for secure service access.

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, providing detailed post-debate 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:** Go, Python, FastAPI, Django, Java, JavaScript, Bash
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infrastructure:** Linux, Docker
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana
- **Security:** Burp Suite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Problem-solving, Adaptability, Team Collaboration, Excellent Communication, Self-motivation