

Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer with a strong foundation in system design, software development, and database management. Eager to leverage technical skills to develop custom applications and optimize processes using modern technologies. Committed to collaborating effectively within teams to deliver quality solutions and enhance user experiences. Seeking opportunities to grow professionally and contribute meaningfully 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, managing 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 outstanding customer service at festivals and events, efficiently managing 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. Awarded “Best Team” for this initiative.
- 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.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, identifying and addressing critical vulnerabilities, thus enhancing 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 on Android devices.
- Streamlined machine learning model to enable automatic actions upon detecting explicit content within image files.

Projects

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

- Designed a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and

Elasticsearch.

- Managed a dataset of 500K tweets, categorized by language, and ingested into Elasticsearch via Kafka.
- Implemented real-time tweet search functionalities with PostgreSQL and Elasticsearch, including pagination.
- Developed a FastAPI service for flagging profane tweets based on a model integrated into the ingestion process for safe search.

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

- Created a booking service backend using Go, Redis, and PostgreSQL, implementing efficient booking logic for high traffic.
- Enhanced performance with Redis caching for seat availability, reducing database calls and improving scalability.
- Incorporated JWT token-based authentication for secure service access.

Debate Management System (Dissertation Project)

- Developed 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.

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, Objective C, Swift, C++, C#
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infra:** Linux, Docker, Kubernetes, Openshift
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA, Power Apps, Power Automate, Power BI
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP

Soft Skills

- Excellent communication and interpersonal skills
- Strong time management and organizational abilities
- Ability to work under pressure and meet deadlines
- Collaborative team player with a proactive approach to problem-solving