

Rayan Crasta - Graduate Software Engineer

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Summary

Motivated graduate software engineer with a solid foundation in system design, software development, and database management. Eager to leverage technical skills and collaborate cross-functionally to build high-performing applications that enhance user experiences. Committed to continuous learning and professional growth, aiming to contribute effectively to the mission of simplifying financial transactions for users around the world.

Work Experience

Mint People - Front of House Staff & Kitchen Porter (Part Time)

May 2024 – Aug 2024, UK

- Provided outstanding customer service in high-pressure restaurant environments, managing reservations, seating, and addressing inquiries efficiently.
- Supported kitchen operations by maintaining cleanliness, assisting in food preparation, and ensuring timely service.

Hap Solutions - Festival and Bar Staff (Part Time)

June 2024 – Aug 2024, UK

- Delivered exceptional customer service at various events, managing bar operations and enhancing attendee experiences.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Efficiently loaded and unloaded shipments while sorting items to streamline workflow and improve 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, significantly reducing manual compliance hours.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect, successfully identifying and mitigating critical vulnerabilities.
- Integrated third-party antimalware and data tokenization solutions into existing architectures.
- Performed manual web application security testing using OWASP ZAP and Burpsuite, enhancing 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, incorporating TensorFlow Lite for real-time classification of explicit and non-explicit images, demonstrating a strong interest in mobile development.
- Streamlined machine learning model integration for automatic actions upon detecting explicit content in images.

Projects

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

- Created a backend prototype resembling Twitter's functionality using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch.
- Managed a dataset of 500K tweets, implementing real-time search capabilities and user functionalities, enhancing the user experience.

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

- Developed a robust booking service backend using Go, Redis, and PostgreSQL, focusing on seamless user experiences during peak traffic.
- Implemented concurrent processing and caching strategies to improve performance and scalability.

Debate Management System (Dissertation Project)

- Designed an interactive platform for managing structured debates, utilizing React.js and FastAPI for a responsive user interface and robust backend.
- Incorporated real-time features and analytics to enhance user engagement and educational effectiveness.

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
- **Infra:** Linux, Docker, Kubernetes, Openshift
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Collaboration, Problem-Solving, Communication, Adaptability, Continuous Learning