

Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer with a strong foundation in backend development and cloud applications, particularly using Python. Eager to apply technical expertise to build high-performance, scalable solutions in collaborative and agile environments. Passionate about continuous learning and innovation, seeking opportunities to contribute to impactful projects in the tech industry.

Work Experience

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

May 2024 – Aug 2024, UK

- Delivered exceptional customer service in restaurants and clubs, managing reservations, seating, and resolving inquiries effectively.
- Supported kitchen operations through dishwashing, food preparation, and maintaining cleanliness, demonstrating strong teamwork and adaptability.

Hap Solutions - Festival and Bar Staff (Part Time)

June 2024 – Aug 2024, UK

- Provided outstanding customer service at festivals and events, managing bar operations and enhancing guest experiences.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Efficiently loaded/unloaded shipments and sorted items, optimizing workflow and demonstrating strong problem-solving skills.

Tata Consultancy Services – Assistant Systems Engineer (Full Time)

June 2021 – Aug 2023, Mumbai, India

- Developed bash scripts to automate compliance hardening for over 100+ Linux servers based on CIS benchmarks, saving 900+ hours of manual work and earning a “Best Team” award.
- Conducted security analysis on Angular and Spring Boot applications using Checkmarx and Fortify WebInspect, identifying and mitigating critical vulnerabilities.
- Integrated third-party antimalware and data tokenization solutions, enhancing application security and compliance.
- Conducted manual web application security testing with OWASP ZAP and Burpsuite, addressing vulnerabilities to improve overall system 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.
- Streamlined machine learning model implementation to automate actions upon detecting explicit content in image files, showcasing problem-solving and technical skills.

Projects

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

- Built a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch, demonstrating strong backend development skills.
- Managed a dataset of 500K tweets and implemented real-time search functionality, highlighting experience with extensive data management.

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

- Developed a booking service backend using Go, Redis, and PostgreSQL with a focus on implementing secure, asynchronous processing and data integrity.
- Enhanced performance with Redis caching, showcasing skills in optimizing backend systems for high-traffic scenarios.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, incorporating gamification and real-time feedback.
- Utilized React.js for responsive UI and FastAPI for backend logic, with PostgreSQL for authentication and MongoDB for storage, demonstrating full-stack development capabilities.

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, Bash, JavaScript, Java, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Cloud Services:** AWS, Linux, Docker, Kubernetes, Openshift
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Problem-solving, Team collaboration, Effective communication, Adaptability, Continuous learning