

Rayan Crasta - Python Software Engineer

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Summary

Detail-oriented Python software engineer with a solid foundation in software development, test coverage, and backend solutions. Eager to contribute to innovative projects by leveraging programming skills and collaborating in Agile environments. Seeking opportunities to enhance functionalities and drive efficiencies within a dynamic team.

Work Experience

Tata Consultancy Services – Assistant Systems Engineer (Full Time)

June 2021 – Aug 2023, Mumbai, India

- Developed bash scripts to automate compliance processes for Linux servers, significantly reducing manual effort.
- Conducted security analysis on Angular and Spring Boot applications, identifying vulnerabilities and enhancing security measures.
- Integrated third-party solutions into existing architectures, improving functionality and user experience.
- Collaborated with cross-functional teams to ensure seamless feature integration and maintained code quality through testing.

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

May 2024 – Aug 2024, UK

- Provided customer service in restaurants and clubs, handling 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 excellent customer service at festivals and events, managed bar operations.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Loaded/unloaded shipments and sorted items efficiently to optimize workflow.

Qustac Technologies Pvt. Ltd - Android Development Intern (Part Time)

Mar 2020 – Jan 2021, Mumbai, India

- Developed an Android application integrating TensorFlow Lite for real-time classification of explicit and non-explicit images.
- Collaborated with team members to implement a machine learning model for automatic actions based on content detection.

Projects

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

- Developed a backend prototype using Go, FastAPI, and PostgreSQL, enhancing real-time data retrieval and search functionalities.
- Implemented features for data ingestion and search functionalities, ensuring optimal

performance and reliability.

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

- Developed a booking service backend using Go and PostgreSQL, ensuring seamless user experience during high traffic.
- Enhanced performance with Redis caching and incorporated JWT token-based authentication for secure access.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates, focusing on user engagement and real-time feedback.
- Built using React.js and FastAPI, ensuring responsiveness and efficient backend operations.

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, Bash, JavaScript, Java, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infra:** Linux, Docker, Kubernetes, Openshift, AWS Lambda
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Strong collaboration, effective communication, adaptability, problem-solving, and detail-oriented.