

Rayan Crasta
Python Developer
Email: rayancrasta95@gmail.com
Contact: +44 7767591427
Leeds, UK
linkedin.com/in/rayan-crasta/
rayancrasta.com
github.com/rayancrasta

Dynamic Python Developer with a strong foundation in software development, system design, and database management. Passionate about improving code quality and driving innovation in collaborative team environments. Eager to apply technical skills to optimize city systems and contribute to energy and sustainability research. Seeking to enhance professional growth and make a meaningful impact in the tech industry.

WORK EXPERIENCE

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.
- 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 the existing architecture.
- 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)

March 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.
- Enhanced the user interface (UI) of the application to optimize user experience and accessibility.

PROJECTS

TweetOps: Twitter-like Tweet Ingestion and Search Backend | Blog. GitHub

- Developed 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.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, ensuring efficient data retrieval.
- 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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL.
- Implemented booking logic for seat checks, claiming, payment verification, and finalization, ensuring a seamless user experience during high traffic.
- Enhanced performance with Redis caching for seat availability, reducing database calls and improving scalability.

Realtime Collaborative Whiteboard | Blog

- Designed a collaborative whiteboard application using Node.js with MongoDB for scalable data

storage and Redis for real-time synchronization.

- Leveraged WebSocket and Redis for synchronized real-time updates among users.
- Monitored server performance using Prometheus and Grafana.

EDUCATION

University of Leicester – MSc Cloud Computing

Sept 2023 – 2024

Mumbai University – Bachelor of Engineering, Information Technology

June 2021, 9.42 CGPA

SKILLS

- Languages: Python, Go, FastAPI, JavaScript, Java, Bash
- Databases: PostgreSQL, MongoDB, Redis
- Infra: Linux, Docker
- Other: Kafka, Elasticsearch, Prometheus, Grafana
- Tools: Postman, Burpsuite, Checkmarx, WebInspect, OWASP ZAP

COURSES AND CERTIFICATION

- Working with Microservices in Go (Udemy)
- Working with Concurrency in Go (Udemy)
- CompTIA Security+
- Devops Ansible (Udemy)
- SOC Analyst 2 from RangeForce
- SOC Analyst 1 from RangeForce

Soft Skills:

- Strong problem-solving skills
- Excellent communication and collaboration abilities
- Passion for continuous learning and improvement
- Adaptability and ability to work in an agile environment