

Rayan Crasta - Python Software Engineer

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Summary

Detail-oriented Python software engineer with a strong foundation in system design, software development, and database management. Passionate about cyber security and eager to apply technical expertise in developing innovative solutions to enhance security measures. Committed to collaborative teamwork and continuous professional growth in the tech industry.

Work Experience

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

May 2024 – Aug 2024, UK

- Provided customer service in restaurants and clubs, managing reservations, seating, and addressing inquiries.

Hap Solutions - Festival and Bar Staff (Part Time)

June 2024 – Aug 2024, UK

- Delivered excellent customer service at festivals and events, overseeing bar operations.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Loaded/unloaded shipments and sorted items efficiently to streamline 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. Recognized with the “Best Team” award for this initiative.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect, effectively identifying and mitigating critical vulnerabilities.
- Integrated third-party antimalware and data tokenization solutions into existing architectures, enhancing overall security.
- Performed manual web application security testing using OWASP ZAP and Burpsuite, addressing vulnerabilities to improve 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 a machine learning model to facilitate automatic actions upon detecting explicit content within image files.

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 for real-time searching.

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

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, implementing booking logic for seat checks and payment verification.
- Utilized Go's concurrency for asynchronous processing, maintaining data integrity with PostgreSQL transactional operations.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, incorporating gamification and real-time feedback.
- Built using React.js for responsive UIs and FastAPI for backend logic, enhancing user engagement and analytics.

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
- **Infrastructure:** Linux, Docker, Kubernetes, Openshift
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Problem-solving, Analytical thinking, Team collaboration, Independent decision-making