Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer with extensive programming experience in Python and a strong foundation in data engineering and software development. Adept at system design, database management, and working with large datasets. Eager to apply technical skills to build efficient, high-performance applications and tools that enhance data analysis and quality checking. Committed to delivering innovative solutions within collaborative team environments while continuously growing in the tech industry.

Work Experience

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

May 2024 – Aug 2024, UK

- Provided exceptional customer service in restaurants and clubs, effectively 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, efficiently managing bar operations.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

 Loaded/unloaded shipments and sorted items efficiently, optimizing workflow and ensuring timely processing.

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. Received the "Best Team" award for this initiative.
- 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, enhancing overall security.
- Performed manual web application security testing using OWASP ZAP and Burpsuite, identifying and 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, managing a dataset of 500K tweets for fast ingestion and search capabilities.
- Implemented user and tweet search functionalities with PostgreSQL and Elasticsearch, ensuring efficient data retrieval and pagination.
- Created 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, implementing booking logic for a seamless user experience during high traffic.
- Utilized Go's concurrency for asynchronous processing, maintaining data integrity with PostgreSQL transactional operations.
- Enhanced performance with Redis caching for seat availability, reducing database calls and improving scalability.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, utilizing gamification, quizzes, and real-time feedback.
- Built using React.js for responsive UIs and FastAPI for backend logic, with PostgreSQL for authentication and MongoDB for debate storage.
- Employed Redis for real-time tracking and WebSockets for live updates during debate sessions, providing detailed post-debate 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, Django, Bash, JavaScript, Java, ReactJS
- Databases: PostgreSQL, MongoDB, Redis, Snowflake
- Infra: Linux, Docker, Kubernetes
- Tools: Kafka, Elasticsearch, Prometheus, Grafana, Dataiku
- Security: Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills**: Strong problem-solving abilities, excellent communication, self-organized, collaborative teamwork, and adaptability to new technologies.