Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer with proven experience in Python development, system design, and software management. Eager to leverage coding skills and technical expertise to build high-performance applications within collaborative and innovative environments. Committed to driving sustainability initiatives and delivering top-quality solutions. Seeking 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

- Provided exceptional customer service in restaurants and clubs, handling reservations, seating, and effectively 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 high-quality customer service at festivals and events while managing bar operations efficiently.

Royal Mail – Warehouse Operative (Part Time)
Nov 2023 – Dec 2023, Northampton, UK

- Loaded/unloaded shipments and sorted items efficiently to optimize workflow in a fast-paced environment.

Tata Consultancy Services – Assistant Systems Engineer (Full Time)
June 2021 – Aug 2023, Mumbai, India

- Developed and optimized bash scripts to automate the hardening process of over 100+ Linux servers for compliance based on CIS benchmarks, saving over 900 hours of manual compliance efforts and winning the "Best Team" award.
- Conducted in-depth 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 existing architecture to enhance system security.
- Executed manual web application security testing utilizing OWASP ZAP and Burpsuite, addressing critical vulnerabilities to bolster 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 machine learning model implementation to facilitate automatic actions upon detecting explicit content within image files.

Projects

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

- Created 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 search capabilities.
- Developed user and tweet search functionalities, ensuring immediate availability of ingested tweets.

MyShowSeat: Booking Service Backend Blog | GitHub

- Designed 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, ensuring data integrity and enhancing performance with Redis caching.

Debate Management System (Dissertation Project)

- Developed a platform for managing structured debates in academic settings, incorporating 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.

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
- **Infra**: Linux, Docker, Kubernetes, Openshift
- **Tools**: Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security**: Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills**: Excellent relationship management, effective communication, collaboration, and problem-solving skills.