Rayan Crasta - Ground Support Systems Software Engineer

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Summary

Detail-oriented software engineer with experience in system design, software development, and data analysis. Proficient in enhancing application performance and collaborating with cross-functional teams to deliver innovative solutions. Strong analytical and problem-solving skills, eager to contribute to the success of ground support systems and ensure the airworthiness of fleet operations. Seeking a role that allows for professional growth while making a meaningful impact 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, 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, managing bar operations.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Loaded/unloaded shipments and sorted items efficiently to optimize 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 hours. Won "Best Team" award for the same. - 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)

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. - Integrated a streamlined 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. - Utilized Elasticsearch for real-time tweet search and immediate availability of ingested tweets. - Created user and tweet search functionalities with PostgreSQL and Elasticsearch, including pagination. - 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. - Utilized Go's concurrency for asynchronous processing, maintaining data integrity with PostgreSQL transactional operations and row-level locking. - Enhanced performance with Redis caching for seat availability, reducing database calls and improving scalability. Incorporated JWT token-based authentication for secure service access.

Debate Management System (Dissertation Project)
- Designed 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. - Utilized Redis for real-time tracking and WebSockets for live updates during debate sessions. - Provided detailed post-debate analytics to help educators enhance teaching strategies.

Education

University of Leicester
MSc Cloud Computing (Sept 2023 - 2024)

Mumbai University
Bachelor of Engineering, Information Technology (2021), 9.42 CGPA

Skills

- **Languages**: Go, Python, 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**: Strong analytical skills, problem-solving abilities, effective communication, collaboration in cross-functional teams, adaptability in fast-paced environments.