Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer with a strong foundation in system design, software development, and database management. Eager to leverage technical skills and collaborative spirit to contribute to application updates and enhancements. Committed to continuous learning and adapting in fast-paced environments, aiming to deliver high-quality solutions that drive engagement and performance in the tech industry.

Work Experience

Mint People - Front of House Staff & Kitchen Porter (Part Time)
May 2024 – Aug 2024, UK

- Provided outstanding customer service in restaurants and clubs, managing reservations, seating, and resolving inquiries effectively.
- Supported kitchen operations through dishwashing, food prep, and maintaining a clean and organized work environment.

Hap Solutions - Festival and Bar Staff (Part Time)
June 2024 – Aug 2024, UK

- Delivered excellent customer service at festivals and events, managing bar operations and ensuring customer satisfaction.

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

- Loaded and unloaded shipments and sorted items efficiently, optimizing workflow and ensuring timely deliveries.

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, significantly reducing manual compliance hours and earning the "Best Team" award.
- Conducted security analysis on Angular and Spring Boot codebases, identifying and mitigating critical vulnerabilities.
- Integrated third-party antimalware and data tokenization solutions into the existing architecture.
- Performed manual web application security testing using OWASP ZAP and Burpsuite, 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.
- Streamlined machine learning model integration to facilitate automatic actions upon detecting explicit content.

Projects

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

- Created a backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch for managing a dataset of 500K tweets.
- Implemented real-time tweet search and user functionalities, ensuring efficient data retrieval and availability.

MyShowSeat: Booking Service Backend Blog | GitHub

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, implementing seamless booking logic and payment verification.
- Ensured data integrity and performance through efficient concurrency and caching strategies.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates, built with React.js and FastAPI, incorporating gamification and real-time feedback.
- Utilized PostgreSQL for authentication and MongoDB for data storage, providing detailed analytics for educators.

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, Java, JavaScript, HTML, Bash
- **Frameworks**: FastAPI, Django, ReactJS
- **Databases**: PostgreSQL, MongoDB, Redis
- **Infra**: Linux, Docker, Kubernetes, Git
- **Tools**: Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security**: Burpsuite, Checkmarx, WebInspect, OWASP ZAP

Soft Skills

- Strong communication and collaboration skills
- Ability to adapt and learn new technologies quickly
- Organized with excellent time management abilities
- Willingness to take initiative and contribute to team projects