Rayan Crasta - Graduate Software Engineer

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Summary

Motivated graduate software engineer with experience in software development, system design, and database management. Passionate about delivering innovative digital solutions and eager to contribute to collaborative team environments. Seeking to leverage technical skills and grow professionally in a dynamic consultancy role within the technology sector.

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, managing reservations, seating, and resolving inquiries to enhance guest experiences.
- Supported kitchen operations through dishwashing, food preparation, and maintaining cleanliness, demonstrating teamwork and reliability.

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, showcasing strong interpersonal skills.

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

- Loaded/unloaded shipments and sorted items efficiently, contributing to optimized workflow and operational excellence.

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 contributions.
- 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 existing architectures to enhance security.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, improving application security by addressing critical vulnerabilities.

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, enhancing user engagement through innovative technology.
- Implemented a streamlined machine learning model for automatic actions upon detecting explicit content, demonstrating proactive problem-solving skills.

Projects

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

- Developed a prototype backend system akin to Twitter using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch.
- Managed a dataset of 500K tweets, ensuring efficient ingestion and retrieval through Elasticsearch.
- Created search functionalities with PostgreSQL and Elasticsearch, incorporating pagination for improved user experience.

MyShowSeat: Booking Service Backend Blog | GitHub

- Developed a booking service backend using Go, Redis, and PostgreSQL, implementing robust booking logic for seamless user experiences during peak times.
- Utilized Go's concurrency for asynchronous processing, enhancing performance through Redis caching and ensuring data integrity with PostgreSQL.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, integrating gamification and real-time feedback features.
- Built with React.js and FastAPI for responsive UIs, utilizing 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**: Go, Python, Java, FastAPI, Django, Bash, JavaScript, ReactJS
- **Databases**: PostgreSQL, MongoDB, Redis
- **DevOps**: Git, Docker, Kubernetes, Openshift
- **Tools**: Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security**: Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills**: Strong communication, collaborative teamwork, problem-solving, adaptability, and time management.