Rayan Crasta - Graduate Software Development Engineer

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Summary

Motivated graduate software development engineer with strong foundations in software development, system design, and database management. Passionate about leveraging technology to enhance user experiences in the travel and tourism industry. Committed to collaborating in diverse team environments to innovate and deliver cutting-edge solutions. Eager to contribute to impactful projects that improve accessibility and efficiency in travel technology.

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 the guest experience.

Hap Solutions - Festival and Bar Staff (Part Time)
June 2024 – Aug 2024, UK
- Delivered high-quality customer service at festivals and events, efficiently managing bar operations and ensuring customer satisfaction.

Royal Mail – Warehouse Operative (Part Time)
Nov 2023 – Dec 2023, Northampton, UK
- Efficiently loaded/unloaded shipments and sorted items to optimize workflow and support operational efficiency.

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. Received 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 the existing architecture, enhancing system security and data integrity. - Performed manual web application security testing with 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, implementing TensorFlow Lite for real-time classification of explicit and non-explicit images on Android devices. - Streamlined machine learning model integration for automatic actions upon detecting explicit content within image files, enhancing user experience and safety.

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. - Created user and tweet search functionalities with PostgreSQL and

Elasticsearch, incorporating pagination for enhanced user experience. - Developed a FastAPI service for flagging profane tweets based on a pre-trained model, integrated into the ingestion process.

MyShowSeat: Booking Service Backend Blog | GitHub

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL. - Implemented booking logic ensuring a seamless user experience during high traffic, 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, 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, providing detailed post-debate 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, FastAPI, Django, Bash, Java, JavaScript, ReactJS
- **Databases**: PostgreSQL, MongoDB, Redis
- **Infra**: Linux, Docker, Kubernetes, OpenShift
- **Tools**: Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security**: Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills**: Problem-solving, Adaptability, Collaboration, Communication, Attention to Detail