Rayan Crasta - Software Engineer

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Summary

Enthusiastic software engineer with a strong foundation in full-stack development, system design, and cloud-native applications. Passionate about delivering secure, high-quality digital experiences and collaborating within cross-functional teams to drive innovation. Eager to leverage technical skills in modern technologies and cloud services to contribute effectively to transformative 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, managing reservations, seating, and resolving inquiries with a friendly and proactive approach.
- Supported kitchen operations through effective teamwork, maintaining cleanliness and efficiency.

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 fostering a positive environment.

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

- Loaded/unloaded shipments and sorted items efficiently to optimize workflow, demonstrating strong time management skills.

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. Recognized with the "Best Team" award for this initiative.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect, identifying and mitigating critical vulnerabilities to enhance application security.
- Integrated third-party antimalware and data tokenization solutions into the existing architecture, demonstrating a commitment to continuous improvement.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, proactively identifying and 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, showcasing a strong aptitude for problem-solving and technology adoption.
- Streamlined a machine learning model to facilitate automatic actions upon detecting explicit

content within image files, enhancing user experience.

Projects

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

- Developed a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch, focusing on performance and scalability.
- Managed a dataset of 500K tweets, categorized by language, ingesting them into Elasticsearch via Kafka for real-time search capabilities.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, including pagination, improving user engagement and experience.

MyShowSeat: Booking Service Backend Blog | GitHub

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, implementing booking logic for 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.
- Incorporated JWT token-based authentication for secure service access, ensuring robust security measures.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, incorporating gamification, quizzes, and real-time feedback to enhance user engagement.
- 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, demonstrating strong software engineering practices.

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, TypeScript
- **Databases**: PostgreSQL, MongoDB, Redis
- **Cloud**: AWS (Lambda, S3, ECS), Docker
- **Tools**: Kafka, Elasticsearch, Terraform, Prometheus, Grafana
- **Security**: Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills**: Excellent collaboration, strong communicator, analytical problem solver, proactive and resourceful, effective time management, continuous improvement mindset.