Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer with expertise in system design, software development, and database management. Proven ability to develop scalable and maintainable applications using modern technologies. Committed to driving innovation in collaborative team environments and delivering top-quality solutions while adhering to secure coding practices. Seeking to contribute to and grow within a forward-thinking team at Barclays, leveraging skills in Python, Go, and distributed systems.

Work Experience

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

- Provided high-quality customer service in restaurants and clubs, efficiently 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, effectively managing bar operations with a focus on teamwork and communication.

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

- Loaded/unloaded shipments and sorted items efficiently to optimize workflow and maintain 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. 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.
- Collaborated with cross-functional teams to define software requirements and develop innovative solutions.

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.
- Implemented automated actions for detecting explicit content, showcasing problem-solving and analytical skills.

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 microservices architecture.
- Managed a dataset of 500K tweets, enabling real-time tweet search and immediate availability using efficient API design and development.
- Implemented a FastAPI service for flagging profane tweets based on a model, integrating secure coding practices within the ingestion process.

MyShowSeat: Booking Service Backend Blog | GitHub

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, ensuring scalability and performance through effective API design.
- Incorporated JWT token-based authentication for secure service access, adhering to best practices in security and risk management.

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.
- Implemented real-time tracking and WebSockets for live updates, enhancing user engagement and experience.

Education

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

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

Skills

- **Languages**: Python, Go, FastAPI, Django, Bash, JavaScript, Java, ReactJS
- **Databases**: PostgreSQL, MongoDB, Redis
- **Infra**: Linux, Docker
- **Tools**: Kafka, Elasticsearch, Prometheus, Grafana, Ansible
- **Security**: Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills**: Effective communication, teamwork, problem-solving, adaptability, strategic thinking, risk management, and collaboration.