Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer with substantial experience in system design, software development, and database management. Proficient in Python and familiar with cloud-native technologies, eager to build and secure scalable applications in Kubernetes environments. Strong collaborator with a commitment to continuous improvement and delivering high-quality solutions. Seeking a challenging role to further develop skills and contribute meaningfully to the tech industry.

Work Experience

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

- Provided excellent customer service in restaurants and clubs, 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 exceptional customer service at festivals and events, managing bar operations.

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

- Loaded/unloaded shipments and sorted items efficiently to optimize workflow.

Tata Consultancy Services – Assistant Systems Engineer (Full Time)
June 2021 – Aug 2023, Mumbai, India

- Developed bash scripts to automate compliance processes for over 100+ Linux servers, saving 900+ hours of manual effort. Awarded "Best Team" for this initiative.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect, identifying and addressing critical vulnerabilities.
- Integrated third-party antimalware and data tokenization solutions into existing architectures to enhance security.
- Performed manual web application security testing using OWASP ZAP and Burpsuite, improving 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.
- Created a streamlined machine learning model enabling automatic actions upon detecting explicit content in images.

Projects

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

- Developed a backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch.
- Managed a dataset of 500K tweets, enabling real-time search and availability using

Elasticsearch.

- Implemented user and tweet search functionalities, incorporating pagination for enhanced user experience.
- Created a FastAPI service for flagging profane tweets, ensuring safe search results.

MyShowSeat: Booking Service Backend Blog | GitHub

- Developed a booking service backend using Go, Redis, and PostgreSQL.
- Ensured seamless user experience during peak traffic with robust booking logic and PostgreSQL transactional operations.
- Enhanced performance with Redis caching for seat availability and implemented JWT token-based authentication for security.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates, incorporating gamification and real-time feedback.
- Built using React.js for responsive UIs and FastAPI for backend logic, with PostgreSQL and MongoDB for data management.
- Utilized Redis for real-time tracking and WebSockets for live updates during debates.
- Provided analytics post-debate to enhance teaching strategies.

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, Kubernetes
- **Tools**: Helm, Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security**: Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Methodologies**: Agile, Scrum, Continuous Integration/Continuous Deployment (CI/CD)

Soft Skills

- Strong analytical and problem-solving abilities
- Excellent communication and collaboration skills
- Adaptability to new technologies and processes
- Commitment to continuous learning and improvement