Rayan Crasta - Vehicle Software Engineer

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Summary

Detail-oriented vehicle software engineer with a strong foundation in software development, system integration, and technical documentation. Committed to improving reliability and ease of operation in vehicle software systems. Eager to contribute to innovative projects within the Hybrid development department, leveraging strong communication and teamwork skills to support collaborative objectives.

Work Experience

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

- Provided 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 excellent customer service at festivals and events, managed 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 scripts to automate the hardening process of over 100+ Linux servers for compliance, significantly reducing manual compliance hours.
- Conducted security analysis on various codebases, identifying and mitigating critical vulnerabilities to enhance application security.
- Integrated third-party solutions into existing architectures, improving system performance and reliability.
- Conducted testing and fault diagnosis on software systems, ensuring adherence to safety and quality standards.

Qustac Technologies Pvt. Ltd - Android Development Intern (Part Time)
Mar 2020 – Jan 2021, Mumbai, India

- Developed an Android application integrating machine learning for real-time classification, focusing on optimizing user experience and functionality.

Projects

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

- Developed a backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch, focusing on system reliability and performance.
- Managed a dataset of 500K tweets, ensuring effective data ingestion and real-time search capabilities.

MyShowSeat: Booking Service Backend Blog | GitHub

- Created a booking service backend prototype with Go, Redis, and PostgreSQL, emphasizing seamless user experience during high traffic.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates, incorporating real-time feedback and analytics, enhancing user engagement and operational efficiency.

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, Bash, Java, JavaScript, ReactJS
- **Databases**: PostgreSQL, MongoDB, Redis
- **Infra**: Linux, Docker, Kubernetes
- **Tools**: Kafka, Elasticsearch, Prometheus, Grafana
- **Testing & Security**: Burpsuite, Checkmarx, OWASP ZAP
- **Soft Skills**: Strong communication, teamwork, problem-solving, adaptability, and self-motivation.