Rayan Crasta - Graduate Software Development Engineer

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Summary

Motivated graduate software development engineer with a strong foundation in software design, development, and database management. Eager to leverage technical skills and collaborative mindset to enhance travel experiences through innovative software solutions. Committed to continuous learning and delivering quality results in fast-paced environments. Seeking to apply my knowledge and skills at Amadeus to contribute to the global travel technology industry.

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, enhancing customer satisfaction.
- Supported kitchen operations through dishwashing, food prep, and maintaining cleanliness, demonstrating teamwork and attention to detail.

Hap Solutions - Festival and Bar Staff (Part Time)
June 2024 – Aug 2024, UK

- Delivered excellent customer service at festivals and events, managing bar operations, showcasing adaptability and problem-solving skills.

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

- Loaded/unloaded shipments and sorted items efficiently to optimize workflow, highlighting organizational skills and ability to work under pressure.

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, demonstrating initiative and efficiency.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect, identifying and mitigating critical vulnerabilities, showcasing analytical skills.
- Integrated third-party antimalware and data tokenization solutions into the existing architecture, enhancing system security and reliability.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, identifying and addressing critical vulnerabilities, thus enhancing 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 on Android devices, demonstrating creativity and technical skills.
- Integrated a streamlined machine learning model to facilitate automatic actions upon detecting explicit content within image files, showcasing problem-solving abilities.

Projects

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

- Developed a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch, demonstrating strong programming skills and understanding of API development.
- Managed a dataset of 500K tweets, categorized by language, and ingested into Elasticsearch via Kafka, showcasing data handling capabilities.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, including pagination, emphasizing attention to detail and user experience.

MyShowSeat: Booking Service Backend Blog | GitHub

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, highlighting database management and backend development skills.
- Implemented booking logic for seat checks, claiming, payment verification, and finalization, ensuring a seamless user experience during high traffic, showcasing problem-solving and critical thinking.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, incorporating gamification, quizzes, and real-time feedback, demonstrating innovative thinking.
- Built using React.js for responsive UIs and FastAPI for backend logic, with PostgreSQL for authentication and MongoDB for debate storage, showcasing versatility in technology stacks.
- Provided detailed post-debate analytics to help educators enhance teaching strategies, emphasizing analytical and communication skills.

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, Java, JavaScript, Bash, ReactJS
- **Databases**: PostgreSQL, MongoDB, Redis
- **Infra**: Linux, Docker, Kubernetes
- **Tools**: Kafka, Elasticsearch, JIRA
- **Soft Skills**: Strong analytical and problem-solving abilities, effective communication, teamwork, adaptability, and a passion for learning.