Rayan Crasta - Software Engineer

Email: rayancrasta95@gmail.com | **Contact**: +44 7767591427
Location: Leeds, UK | LinkedIn | http://rayancrasta.com | GitHub

Summary

Dynamic software engineer with experience in system design, software development, and database management. Proven ability to deliver high-performance applications and enhance application security. Eager to leverage technical skills and collaborative mindset to contribute to innovative projects in a fast-paced environment. Seeking to grow professionally while making a meaningful impact 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 effectively.
- Supported kitchen operations through dishwashing, food preparation, and maintaining cleanliness.

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

- Delivered excellent customer service at festivals and events, managing bar operations and engaging with diverse groups.

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

- Efficiently loaded/unloaded shipments and sorted items to optimize workflow and ensure timely delivery.

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 work. Awarded "Best Team" for notable contributions.
- 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 existing architecture, enhancing data security.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, addressing vulnerabilities and improving overall 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.
- Streamlined machine learning model to facilitate automatic actions upon detecting explicit content within image files.

Projects

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

- Designed and developed a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch.
- Managed a dataset of 500K tweets, categorized by language, ingested into Elasticsearch via Kafka for efficient search.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, including pagination for improved user experience.
- Developed a FastAPI service for flagging profane tweets, ensuring a safe search environment.

MyShowSeat: Booking Service Backend Blog | GitHub

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, implementing robust booking logic for seamless user experience.
- Utilized Go's concurrency features for asynchronous processing, maintaining data integrity through PostgreSQL transactions.
- Enhanced system performance with Redis caching for seat availability, improving scalability and reducing database load.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, incorporating gamification 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.
- Utilized Redis for real-time tracking and WebSockets for live updates during debate sessions.
- Provided detailed post-debate analytics to help educators 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**: Go, Python, FastAPI, Django, Bash, JavaScript, Java, ReactJS
- **Databases**: PostgreSQL, MongoDB, Redis
- **Infra**: Linux, Docker
- **Tools**: Kafka, Elasticsearch, Prometheus, Grafana
- **Security**: Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills**: Strong communication, collaboration, problem-solving, adaptability, attention to detail, and ability to work in a team-oriented environment.