Rayan Crasta - Backend Engineer

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

Summary

Detail-oriented Backend Engineer with a strong foundation in system design, software development, and database management. Passionate about building high-performance applications utilizing modern technologies, with a focus on scalability and reliability. Seeking to leverage technical expertise and collaborative mindset in a dynamic team environment to contribute to innovative solutions that enhance user experiences.

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, effectively handling reservations, seating, and resolving inquiries.
- Supported kitchen operations through dishwashing, food preparation, and maintaining a clean and organized environment.

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

- Delivered outstanding customer service at festivals and events, efficiently managing bar operations to ensure a seamless guest experience.

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

- Loaded and unloaded shipments while sorting 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 work and earning the "Best Team" award.
- Conducted security analysis on Angular and Spring Boot codebases with Checkmarx and Fortify WebInspect, identifying and mitigating critical vulnerabilities to enhance application security.
- Integrated third-party antimalware and data tokenization solutions into existing architecture, ensuring robust security measures.
- Performed manual web application security testing using OWASP ZAP and Burpsuite, identifying critical vulnerabilities and implementing solutions to improve security posture.

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 integration to facilitate automatic actions upon detecting explicit content within image files.

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 low latency and high scalability.
- Managed a dataset of 500K tweets, categorized by language, and ingested into Elasticsearch via Kafka for efficient data retrieval.
- Implemented search functionalities with PostgreSQL and Elasticsearch, including pagination and real-time updates.

MyShowSeat: Booking Service Backend Blog | GitHub

- Developed a robust booking service backend using Go, Redis, and PostgreSQL, implementing seamless booking logic and payment verification.
- Utilized Go's concurrency for efficient processing, ensuring data integrity with PostgreSQL transactional operations and row-level locking.
- Enhanced application performance with Redis caching for seat availability, reducing database calls and improving scalability.

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.
- Utilized Redis for real-time tracking and WebSockets for live updates during debate sessions, providing detailed post-debate analytics for educators.

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, Kubernetes, Openshift
- **Tools**: Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security**: Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills**: Problem-solving, Team collaboration, Communication, Adaptability, Time management