Rayan Crasta - Backend Engineer

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

Visa: Graduate Visa till December 2026

Summary

Detail-oriented backend engineer with expertise in software development, system design, and database management. Passionate about building scalable, high-performance applications that prioritize security and user privacy. Seeking to leverage technical skills and collaborative spirit to contribute effectively to Proton's mission of providing privacy as a default in online services.

Work Experience

Primark - Retail Assistant
Nov 2024 – Present, UK

- Provided exceptional customer service by assisting shoppers with inquiries and product selections in a fast-paced retail environment.
- Efficiently handled point-of-sale transactions and resolved customer concerns to enhance the shopping experience.

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

- Delivered customer service in restaurants and clubs, managing reservations and inquiries.
- Supported kitchen operations through dishwashing, food prep, and maintaining cleanliness.

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

- Provided excellent customer service at festivals, managing bar operations and ensuring customer satisfaction.

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. Received "Best Team" award for the initiative.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect, identifying and mitigating critical security vulnerabilities.
- Integrated third-party antimalware and data tokenization solutions into existing architectures, enhancing overall system security.
- Performed manual web application security testing using OWASP ZAP and Burpsuite, improving application resilience against attacks.

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.
- Implemented a 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

- Created a backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch for handling tweet ingestion and search functionalities.
- Managed a dataset of 500K tweets, categorized by language, and optimized for real-time search capabilities using Elasticsearch.
- Developed user and tweet search functionalities, ensuring efficient data retrieval and pagination.

MyShowSeat: Booking Service Backend Blog | GitHub

- Built a booking service backend using Go, Redis, and PostgreSQL, implementing booking logic and payment verification processes for seamless user experience.
- Enhanced performance through Redis caching and ensured data integrity with PostgreSQL transactional operations.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates, incorporating gamification and real-time feedback features using React.js and FastAPI with PostgreSQL and MongoDB.
- Utilized Redis for real-time tracking and WebSockets for live updates, providing detailed analytics to 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, Bash, JavaScript, Java, Django, ReactJS
- **Databases**: PostgreSQL, MongoDB, Redis
- **Infra**: Linux, Docker, Kubernetes
- **Tools**: Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security**: Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills**: Problem-solving, teamwork, adaptability, and effective communication.