

Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer with over 2 years of experience in system design, software development, and database management, specializing in backend development using Go. Eager to leverage technical expertise to enhance merchant-facing platforms, delivering robust and scalable solutions. Passionate about collaborating in team environments to drive innovation and optimize performance while ensuring the highest standards of service.

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 addressing inquiries.
- Supported kitchen operations through dishwashing, food prep, and maintaining cleanliness, showcasing teamwork and adaptability.

Hap Solutions - Festival and Bar Staff (Part Time)

June 2024 – Aug 2024, UK

- Delivered outstanding customer service at festivals and events, ensuring efficient bar operations and engaging with attendees.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Efficiently loaded/unloaded shipments and sorted items to optimize workflow, demonstrating attention to detail and 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 time. Awarded “Best Team” for the initiative.
- Conducted comprehensive 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 the existing architecture.
- Executed manual web application security testing with OWASP ZAP and Burpsuite, enhancing application security by identifying and addressing critical vulnerabilities.

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 a machine learning model to enable automatic actions upon detecting explicit content within image files.

Projects

TweetOps: Twitter-like Tweet Ingestion and Search Backend [Blog](#) | [GitHub](#)

- Designed and implemented a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch, focusing on scalability and performance.
- Managed a dataset of 500K tweets, categorized by language, and ingested into Elasticsearch via Kafka, ensuring efficient data retrieval.
- Developed user and tweet search functionalities with PostgreSQL and Elasticsearch, including pagination for optimal

user experience.

MyShowSeat: Booking Service Backend [Blog](#) | [GitHub](#)

- Created a booking service backend prototype using Go, Redis, and PostgreSQL, implementing robust booking logic for a seamless user experience during high traffic.
- Utilized Go's concurrency for asynchronous processing, ensuring data integrity with PostgreSQL transactional operations and row-level locking, while enhancing performance with Redis caching.

Debate Management System (Dissertation Project)

- Developed 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 educators with detailed post-debate analytics.

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, DynamoDB
- **Infra:** Linux, Docker, AWS, EKS
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Strong communication, teamwork, problem-solving, adaptability, attention to detail, product-minded approach