

Rayan Crasta

Software Engineer

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Dynamic software engineer adept in system design, software development, and database management. Eager to apply technical prowess to build high-performance applications with modern technologies, delivering top-quality solutions and driving innovation in collaborative team environments. Seeking challenging roles to grow professionally and make a meaningful impact in the tech industry.

WORK EXPERIENCE

Mint People

Front of House Staff & Kitchen Porter (Part Time)

May 2024 – August 2024, United Kingdom

- Provided customer service in restaurants and clubs, handling reservations, seating, and resolving inquiries.
- Supported kitchen operations through dishwashing, food prep, and maintaining cleanliness.

Hap Solutions

Festival and Bar Staff (Part Time)

June 2024 – August 2024, United Kingdom

- Provided excellent customer service at festivals and events.
- Managed bar operations, including serving drinks and handling transactions.

Royal Mail

Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, United Kingdom

- Efficiently loaded and unloaded incoming and outgoing shipments, ensuring accuracy and timeliness in accordance with company procedures.
- Proficiently sorted items based on delivery locations, optimizing workflow and minimizing errors.

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. Won “Best Team” award for the same.
- 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 the existing architecture.

- 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)

March 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.
- Integrated a streamlined machine learning model to facilitate automatic actions upon detecting explicit content within image files.
- Enhanced the user interface (UI) of the application to optimize its user experience and accessibility.

PROJECTS

TweetOps: Twitter-like Tweet Ingestion and Search Backend

- Developed a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch.
- Managed a dataset of 500K tweets, categorized by language, and ingested into Elasticsearch via Kafka.
- Utilized Elasticsearch for real-time tweet search and immediate availability of ingested tweets.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, including pagination.
- Developed a FastAPI service for flagging profane tweets based on a model, integrated into the ingestion process for safe search.

MyShowSeat: Booking Service Backend

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL.
- Implemented booking logic for seat checks, claiming, payment verification, and finalization, ensuring a seamless user experience during high traffic.
- Utilized Go's concurrency for asynchronous processing, maintaining data integrity with PostgreSQL transactional operations and row-level locking.
- Enhanced performance with Redis caching for seat availability, reducing database calls and improving scalability. Incorporated JWT token-based authentication for secure service access.

Realtime Collaborative Whiteboard

- Designed a collaborative whiteboard application using Node.js where I implemented MongoDB for scalable, reliable whiteboard data storage and Redis for real-time synchronization.
- Leveraged WebSocket and Redis for synchronized real-time updates among users.
- Ensured data persistence and consistency with MongoDB replica sets.
- Monitored server performance using Prometheus and Grafana.

EDUCATION

University of Leicester

MSc Cloud Computing

Sept 2023 - 2024

Mumbai University

SKILLS

- **Languages:** Go, Python, FastAPI, Django, Bash, JavaScript, Java, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infrastructure:** Linux, Docker
- **Other Technologies:** Kafka, Elasticsearch, Prometheus, Grafana
- **Tools:** Postman, Burpsuite, Checkmarx, WebInspect, OWASP ZAP

COURSES AND CERTIFICATIONS

- Working with Microservices in Go (Udemy)
- Working with Concurrency in Go (Udemy)
- CompTIA Security+
- DevOps Ansible (Udemy)
- SOC Analyst 2 from RangeForce
- SOC Analyst 1 from RangeForce