

Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer with a strong foundation in system design, software development, and database management. Eager to leverage technical skills to build scalable and robust applications in fast-paced environments, focusing on delivering high-quality solutions and enhancing customer experiences. Committed to continuous improvement and innovation while collaborating effectively within diverse teams.

Work Experience

Mint People - Front of House Staff & Kitchen Porter (Part Time)

May 2024 – Aug 2024, UK

- Provided excellent customer service in restaurants and clubs, handling reservations, seating, and resolving inquiries to enhance customer satisfaction.
- Supported kitchen operations through dishwashing, food prep, and maintaining cleanliness, demonstrating teamwork and reliability.

Hap Solutions - Festival and Bar Staff (Part Time)

June 2024 – Aug 2024, UK

- Delivered outstanding customer service at festivals and events, managed bar operations, and ensured a positive guest experience.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Loaded/unloaded shipments and sorted items efficiently to optimize workflow, highlighting attention to detail and organizational skills.

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. Earned “Best Team” award for outstanding contributions.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect to identify and mitigate critical vulnerabilities, emphasizing a strong focus on security best practices.
- Integrated third-party antimalware and data tokenization solutions into existing architecture, showcasing adaptability to new technologies.
- Conducted manual web application security testing using 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, demonstrating problem-solving abilities and technical innovation.
- Integrated a 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](#)

- Developed a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch, showcasing expertise in building scalable solutions.
- Managed a dataset of 500K tweets, categorized by language, and ingested into Elasticsearch via Kafka for efficient data handling.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, including pagination for an enhanced user experience.

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

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

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, incorporating gamification, quizzes, and real-time feedback to enhance user engagement.
- Built using React.js for responsive UIs and FastAPI for backend logic, with PostgreSQL for authentication and MongoDB for debate storage.

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:** Team player, problem-solver, adaptable, customer-focused, strong communicator, self-motivated