

Rayan Crasta - Graduate Software Engineer

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Summary

Motivated software engineer with a solid foundation in system design, software development, and database management. Adept at collaborating in team environments to deliver innovative, high-performance applications. Eager to leverage technical skills and a strong understanding of data-driven solutions to contribute to National Grid's mission of connecting customers to the electricity transmission network and facilitating the transition to a greener future.

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 effectively.
- Supported kitchen operations through dishwashing, food preparation, 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, managing bar operations and ensuring a positive experience for attendees.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Efficiently loaded and unloaded shipments, sorted items to optimize workflow, and collaborated with team members to enhance productivity.

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. Recognized with the “Best Team” award for this achievement.
- Conducted security analysis on Angular and Spring Boot codebases using Checkmarx and Fortify WebInspect, identifying and mitigating critical vulnerabilities to enhance application security.
- Integrated third-party antimalware and data tokenization solutions into existing architecture, improving data protection.
- Performed manual web application security testing using OWASP ZAP and Burpsuite, 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.
- Streamlined machine learning model integration to facilitate automatic actions upon detecting explicit content, enhancing user experience.

Projects

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

- Developed a Twitter-like backend prototype using Go, FastAPI, Kafka, PostgreSQL, and Elasticsearch, demonstrating strong data handling and processing capabilities.
- Managed a dataset of 500K tweets, utilizing Elasticsearch for real-time search and immediate availability of ingested tweets.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, incorporating pagination for user convenience.

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, focusing on delivering a seamless user experience during high traffic.
- Implemented booking logic for seat checks, claiming, payment verification, and finalization, demonstrating problem-solving skills and attention to detail.
- Enhanced 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, showcasing innovative use of technology.

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
- **Infrastructure:** Linux, Docker, Kubernetes, Openshift
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Soft Skills:** Team Collaboration, Effective Communication, Problem Solving, Adaptability, Stakeholder Engagement