

Rayan Crasta - Software Engineer

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Summary

Dynamic software engineer with a strong foundation in machine learning technologies, system design, software development, and database management. Passionate about harnessing AI to create impactful solutions and eager to collaborate with cross-functional teams to deliver high-performance applications. Committed to continuous learning and professional growth in the tech industry, with a keen interest in financial markets and innovative technology.

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, effectively handling reservations, seating, and resolving inquiries with a focus on enhancing guest experience.
- Supported kitchen operations through dishwashing, food prep, and maintaining cleanliness.

Hap Solutions - Festival and Bar Staff (Part Time)

June 2024 – Aug 2024, UK

- Delivered outstanding customer service at festivals and events, managing bar operations while maintaining a positive and collaborative team atmosphere.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Efficiently loaded and unloaded shipments, and sorted items to optimize workflow, showcasing strong 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 hours. Recognized with the “Best Team” award for the project.
- 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 the existing architecture, showcasing adaptability and problem-solving skills.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, enhancing security measures and ensuring compliance.

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, demonstrating knowledge in AI and machine learning.
- Streamlined machine learning model integration 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, focusing on real-time data processing and search functionalities.
- Managed a dataset of 500K tweets, ensuring efficient ingestion into Elasticsearch via Kafka and enhancing user experience through effective data retrieval.

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

- Developed a booking service backend prototype using Go, Redis, and PostgreSQL, implementing robust booking logic to handle high traffic efficiently and ensure seamless user experience.
- Incorporated JWT token-based authentication for secure service access, demonstrating understanding of secure application design.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, incorporating gamification, quizzes, and real-time feedback, showcasing ability in project management and system architecture.
- Built using React.js for responsive UIs and FastAPI for backend logic, with PostgreSQL for authentication and MongoDB for debate storage, emphasizing full-stack development capabilities.

Education

University of Leicester

MSc Cloud Computing (Sept 2023 - 2024)

Mumbai University

Bachelor of Engineering, Information Technology (2021), 9.42 CGPA

Skills

- **Languages:** Python, Go, FastAPI, Django, Bash, JavaScript, Java, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infra:** Linux, Docker
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP
- **Machine Learning:** TensorFlow Lite, data analysis techniques (NumPy, Pandas)
- **Soft Skills:** Strong problem-solving abilities, excellent communication and interpersonal skills, teamwork and collaboration, self-organized with effective time management, adaptability, and keen analytical mindset.