

Rayan Crasta - AI Engineering Intern

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Summary

Motivated software engineering student with a strong foundation in system design, software development, and database management, with a keen interest in AI and machine learning. Eager to leverage technical skills and collaborative mindset to develop and deploy AI/ML solutions. Seeking an internship opportunity to grow professionally and contribute to innovative projects that make a meaningful impact in the tech industry.

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 resolving inquiries.
- Assisted kitchen operations through dishwashing, food preparation, and maintaining cleanliness.

Hap Solutions - Festival and Bar Staff (Part Time)

June 2024 – Aug 2024, UK

- Delivered superior customer service at festivals and events, effectively managing bar operations.

Royal Mail – Warehouse Operative (Part Time)

Nov 2023 – Dec 2023, Northampton, UK

- Efficiently loaded and unloaded shipments and sorted items to optimize workflow.

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 efforts. Recognized with the “Best Team” award for this initiative.
- 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 existing architecture.
- Conducted manual web application security testing using OWASP ZAP and Burpsuite, enhancing application security by 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.
- Leveraged machine learning models to automate 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.
- Managed a dataset of 500K tweets, categorized by language, and ingested into Elasticsearch via Kafka.
- Created user and tweet search functionalities with PostgreSQL and Elasticsearch, including pagination.
- Developed a FastAPI service for flagging profane tweets, ensuring compliance with community standards.

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

- Built a booking service backend prototype using Go, Redis, and PostgreSQL.
- Implemented robust booking logic for seat checks, claiming, payment verification, and finalization.
- Utilized Go's concurrency for asynchronous processing, maintaining data integrity with PostgreSQL.
- Enhanced performance with Redis caching for seat availability, reducing database calls.

Debate Management System (Dissertation Project)

- Designed a platform for managing structured debates in academic settings, incorporating gamification and real-time feedback.
- Built using React.js for responsive UIs and FastAPI for backend logic, with PostgreSQL and MongoDB for data management.
- Utilized Redis for real-time tracking and WebSockets for live updates during debate sessions.

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, Java, Bash, JavaScript, ReactJS
- **Databases:** PostgreSQL, MongoDB, Redis
- **Infra:** Linux, Docker, Kubernetes, AWS (SageMaker)
- **Tools:** Kafka, Elasticsearch, Prometheus, Grafana, JIRA
- **Security:** Burpsuite, Checkmarx, WebInspect, OWASP ZAP

Soft Skills

- Excellent problem solver with a proactive and positive attitude
- Strong communication skills, capable of collaborating cross-functionally
- Eager learner with a curiosity for new AI/ML technologies
- Team player with a focus on driving solutions and enhancing project outcomes