

# Rayan Crasta

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## Software Engineer

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Location: Leeds, UK

[LinkedIn](#) | [Website](#) | [GitHub](#)

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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.

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## WORK EXPERIENCE

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### Mint People

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#### 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

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#### 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

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#### 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

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#### 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. 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 Burp Suite, identifying and addressing critical vulnerabilities, thus enhancing application security.

## Qustac Technologies Pvt. Ltd

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### 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 user experience and accessibility.
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## PROJECTS

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### TweetOps: Twitter-like Tweet Ingestion and Search Backend

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- 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

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- 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

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- Designed a collaborative whiteboard application using Node.js, implementing 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.
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## EDUCATION

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### University of Leicester

MSc Cloud Computing

Sept 2023 - 2024

### Mumbai University

Bachelor of Engineering, Information Technology

June 2021, 9.42 CGPA

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## SKILLS

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

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- 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