

Rakshit Mehta

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Technical Skills

Languages: Python, C++, JavaScript, TypeScript, SQL

Backend: Node.js, Express.js, FastAPI, GraphQL, Airflow, Kafka, PostgreSQL, MongoDB, Neo4j, LangChain, LangGraph

Frontend: React.js, Next.js, Angular, SCSS

Cloud & DevOps: AWS, Docker, Kubernetes, Jenkins, CI/CD

Fundamentals: DSA, OOP, OS, Networks, DBMS, Auth (OIDC, Kerberos), Linux

Experience

Morgan Stanley

Aug 2025 – Aug 2026

Technology Apprentice

Bengaluru, Karnataka

- Engineered backend services in **Python** across 3+ **microservices**, using **Apache Kafka** for async communication, **GraphQL APIs** for data access, and Neo4j and **AWS S3** for scalable data storage in **production**.
- Architected a **PostgreSQL** historical data store capturing change history for 500K+ entities migrated from **Neo4j**, designing the schema for point-in-time auditing with idempotent ingestion to handle pipeline retries.
- Designed and optimized 3+ **Apache Airflow** based **ETL pipelines** with complex task dependencies, improving **reliability**, observability, and failure recovery across **production** data workflows.
- Built an **agentic RAG** chatbot backend using **LangGraph** with a Supervisor (planner-executor) architecture, orchestrating task-specific agents that dynamically route queries across 2+ data sources.
- Automated** regression testing for critical application flows using an internal framework, reducing manual **QA** effort by ~60% and cutting release cycle time by ~30%.

TriwebAPI

Aug 2023 – Nov 2023

Web Development Intern

Bengaluru, Karnataka

- Developed full-stack web applications using the **MERN** stack and **TypeScript**, implementing responsive interfaces aligned with modern UI/UX principles.
- Crafted 15+ reusable **React components** with modular architecture, improving code **maintainability** and development efficiency.

Projects

CodeWave – AI-Powered Online Sandboxed Code Execution Platform | *Next.js, Dockerode, Prisma, PostgreSQL, OpenAI API*
[Source Code](#)

- Engineered a cloud-based code execution platform supporting 2+ languages, running untrusted user code inside isolated Docker **sandboxes** by spinning up a fresh container per execution via Dockerode to prevent host system access and resource abuse.
- Integrated **OpenAI's API** for context-aware code completions, and modeled users, projects, and execution history in **PostgreSQL** via **Prisma** for persistent workspaces across sessions.

PeerTalk – Realtime Communication Platform | *Node.js, WebRTC, WebSockets, Express.js, PostgreSQL, AWS S3*

[Live Link](#) | [Source Code](#)

- Developed a full-stack platform supporting live chat, video calling, and file sharing using **WebRTC** and **WebSockets** over a Node.js/Express **REST API** handling concurrent sessions and real-time event streams.
- Implemented **OIDC**-based authentication from scratch without third-party libraries, handling authorization code flow, token validation, and **JWT**-based stateless session management.

Network Scanner | *Python, Sockets, Multithreading*

[Source Code](#)

- Built a **Python TCP** port scanner replicating core **Nmap** functionality — customizable port ranges, socket-based connection attempts, and real-time status output.
- Cut scan time by parallelizing connection attempts across a **multithreaded** worker pool, with configurable socket timeouts to avoid blocking on filtered ports.

Education

Graphic Era University

2022 – 2026

Bachelor of Technology in Computer Science (CGPA: 8.2 / 10.0)

Dehradun, Uttarakhand