Mohammed Amaan Subhani
Graduate Student - Computer Science

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EDUCATION

DePaul University   GPA: 3.92
Masters in Computer Science

St. Martins Engineering College - Hyderabad India   GPA: 8.19
Bachelor of Technology - Computer Science and Engineering

EXPERIENCE

Graduate Assistant – Tutor (Software Engineering and Programming)   Sep 2025 – Present
DePaul University   *Chicago, IL*

- Tutored students in Systems 1, Distributed Systems, Web Development, and Data Structures through one-on-one and group sessions.
- Reviewed code, helped students debug code, strengthen programming logic, and build a deeper understanding of algorithms and software design.
- Collaborated with professors to align tutoring support with course goals and enhance student learning outcomes.

Software Developer Intern   November 2022 – July 2023
AxiomIO   *Hyderabad, India*

- Developed and optimized frontend pages in React/Angular to make API calls, and render data using interactive tables and forms, while resolving UI and accessibility issues.
- Designed and implemented RESTful APIs and complex database queries across MongoDB and PostgreSQL, integrating Redis caching and improving data retrieval performance.
- Enhanced system reliability by refactoring Kafka consumers, fixing caching logic, and troubleshooting application errors through OpenSearch log analysis.
- Collaborated on backend improvements by writing integration test cases, maintaining cron jobs, and supporting database migrations and authentication enhancements.

TECHNICAL SKILLS

Languages: Java, Go, JavaScript, Python
Frameworks/Libraries: React, Angular, Springboot, FastAPI
Databases: MongoDB, MySQL, PostgreSQL
Tools and Platforms: AWS(EC2, S3, Lambda), GCP, Postman, Kafka, Redis, Git, Github
Course Curriculum: Data Structures and Algorithms, Object-Oriented Programming(OOP), Computer Networks, Distributed Systems, Software Architecture, Artificial Intelligence, Software Security, Agile Software Development

PROJECTS

AI-Driven Stock Portfolio Management Platform — Next.js, Python, PostgreSQL

- Built a backend-driven web application supporting stock search, historical data analysis, portfolio tracking, and secure user authentication via RESTful APIs.
- Implemented AI-based recommendation logic to deliver personalized stock insights using user portfolio data, historical price trends, and market signals, with a focus on performance and extensibility.

MovieScore — React, .NET, SQLite

- Developed a full-stack movie review platform enabling users to explore trending movies, manage watchlists, and submit ratings and reviews.
- Implemented detailed movie pages with metadata, ratings aggregation, and persistent storage using SQLite and a .NET REST API.