

ROHAN SUBRAMANIAM

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EDUCATION

New York University - Tandon School of Engineering
Master of Science, Computer Engineering

September 2024 – May 2026

NMIMS - Mukesh Patel School of Technology Management and Engineering
Bachelor of Technology, Computer Science

August 2020 – May 2024

EXPERIENCE

Audible (An Amazon company)
Software Development Intern

June 2025 – August 2025
Newark, NJ

- Migrated legacy Android UI to **Jetpack Compose**, modernizing key app experiences and improving UI rendering efficiency by **20%**.
- Delivered customization and settings improvements released to millions of users in the **August 21, 2025 Android update**.
- Implemented new customization features and reusable UI components, improving both listener experience and developer productivity.

Anvitech Solutions
Software Development Intern

May 2023 – July 2023
Mumbai, India

- Designed and implemented a Java + Spring Boot e-commerce platform with secure payment integration, SQL query tuning, and a responsive UI using HTML, CSS, and JavaScript.
- Improved checkout reliability and reduced UI issues based on user feedback.

SKILLS

Languages: Python, C, C++, JavaScript, HTML/CSS, Kotlin, Java

Frameworks & Libraries: AngularJS, TensorFlow, Scikit-learn, Jetpack-Compose

Software Engineering: Data Structures, Algorithms, OOP, Design Patterns

Databases: PostgreSQL, MongoDB, MySQL

DevOps & Tools: Git, Docker, CI/CD, Bash/Shell Scripting

Cloud Platforms: AWS, Google Cloud Platform (GCP), Microsoft Azure

PROJECTS

Multilingual Music Recommendation Model (Python, PyTorch, Docker)

February 2025 – May 2025

- Built a multilingual music recommendation system as part of an MLOps course project using **LaBSE**, **fast-langdetect**, and the **Million Playlist Dataset**.
- Implemented offline and online pipelines to process lyrics, detect language, and generate positive training pairs.
- Used **MinIO** for object storage and **Chameleon Cloud** block volumes for persistent dataset and model storage.
- Designed reproducible workflows and integrated evaluation tools to support multilingual recommendation tasks.

Capstone Project: AI-Powered Task Automation Agent (Python, Electron.JS, VectorDB)

August 2023 – April 2024

- Designed and implemented a locally based autonomous chatbot interface using Hugging Face models and the Electron framework, enhancing natural interactions by focussing on flexibility and scalability for diverse user needs.
- The project Achieved **2nd place** in the Annual Project Competition of the Department of Computer Engineering, MPSTME.

QwenNET (Python, PyTorch, Qwen LLM, Scapy)

September 2025 – December 2025

- Fine-tuned the Qwen2.5-0.5B Large Language Model for network traffic analysis, treating packet sequences as language tokens to enable advanced traffic understanding and anomaly detection tasks.
- Engineered an end-to-end data pipeline to process raw PCAP traces into bigram corpora, achieving **90.4% sequence generation accuracy** on the USTC-TFC2016 and ISCX-VPN-2016 benchmarks.