Rohan Tomar

995-8788-269 | axelb4467@gmail.com | linkedin.com/in/rohan-tomar17 | github.com/rohanq17

Education

Delhi Technological University Delhi, IN
Bachelor's of Technology in Maths and Computing *Nov. 2022 – July 2026*
CGPA: 8.23

Experience

Scale AI Feb. 2025 – July 2025
Freelance Software Developer *Remote*

- Resolved critical bugs across diverse machine learning model responses, implementing production-ready fixes for both frontend UI components and backend logic in multiple programming languages and frameworks.
- Developed and tested unit and integration suites in Dockerized environments, achieving 90%+ code coverage and implementing robust CI/CD pipelines for multiple open-source projects.
- Enhanced AI coding capabilities by authoring detailed evaluation rubrics and providing corrective training data for leading language models (Gemini, GPT-4, Claude), directly improving model accuracy in software engineering tasks.

Hashed Tokens Aug. 2024 – Feb 2025
Founding Software Engineer Intern

- Contributed to the development of Group Access Management (GAM), a system designed for managing access control lists and privilege control.
- Designed and developed functionality to reorder groups based on active operations, ensuring a responsive and intuitive user experience, resulting in a 30% reduction in load times.

Projects

NekoLive | *Django, WebRTC, Agora, JavaScript* Jun. 2024 – Jul. 2024

- Developed a full-stack video conferencing application using Django backend, JavaScript frontend, and WebRTC Agora server for real-time communication.
- Implemented WebRTC methods and reduced latency by 30%, ensuring high-quality audio and video.
- Implemented scalable backend with Django, facilitating secure user authentication, real-time database management, and API integration.

N-Body Gravity Simulator | *C++, OpenGL, Barnes-Hut Algorithm* May 2025 – July 2025

- Designed and implemented a gravity simulator in C++ that visualizes real-time interactions of celestial bodies using OpenGL.
- Applied the Barnes-Hut algorithm to reduce force calculation complexity from $O(n^2)$ to $O(n \log n)$, enabling smooth simulation of 1000+ bodies.
- Engineered a quad-tree data structure for efficient spatial partitioning and optimized rendering performance.

Extra-Curricular

AWS Cloud Club DTU Sep. 2024 – Present
Technical Head

- Led the design, development, and deployment of responsive web applications, optimizing cloud-based solutions for AWS Cloud Club DTU. Successfully hosted events like AWS infrastructure camps and community sessions with hundreds of AWS-certified employees and cloud captains.

Technical Skills

Languages & Frameworks: Django, Django REST Framework, PostgreSQL, Python, C/C++, JavaScript, React, HTML/CSS
Tools & Technologies: Git, Docker, Visual Studio, PyCharm, Jupyter Notebook, Pandas, AWS (EC2, S3), Linux