

Abhishek Kumar

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Software engineer with 2+ years of hands-on experience in full-stack development and early-stage product engineering. Built the MVP for a healthcare AI startup that raised over \$1.5M while freelancing as a student, leading to a transition to founding engineer. Three-time consecutive hackathon winner, and selected as Qualcomm's first-ever Ambassador, mentoring teams and delivering technical demos to drive developer adoption of their Edge AI products.

Experience

Sahl AI · **Founding Software Developer**

Apr 2023 - Aug 2024 · Liverpool, United Kingdom

- Wrote 25% of a 76,000-line codebase across 4 projects, writing 19,000+ lines in Python, TypeScript, & JavaScript
- Improved response times by 60% using caching on 40+ FastAPI endpoints, validated by distributed tracing
- Raised test coverage from 20% to 90% by implementing pytest fixtures, mocking, and parameterization

IIT Kharagpur · **Software Developer Intern**

May 2023 - Jul 2023 · West Bengal, India

- Built an IoT-driven real-time vehicle tracking system using SocketIO to monitor bus routes & delays in real-time
- Built 90% codebase of a transit optimization platform handling 20+ bus routes and 1000+ daily trips

Upwork · **Software Developer Freelancer**

Jun 2022 - Sep 2023 · Vijayawada, Andhra Pradesh, India

- Built a data pipeline using Selenium and desktop-based GUI scraping on AWS VM for live stock-market data
- Automated analysis using BigQuery with dynamic pivots & window functions to process over 5 million rows daily

Education

New York University Tandon School of Engineering · New York, NY, USA

May 2026 · **MS in Informatics (Computer and Information Sciences)** (3.9 GPA)

- *Coursework:* Machine Learning, Deep Learning, Optimization, Data Science, Big Data Management & Analysis
- *Honors:* CUSP Rising Scholar, Tandon Graduate Scholarship
- *Leadership:*
 - Qualcomm · Ambassador
 - Applied Urban Science Association · Director of Finance & Administration

School of Planning and Architecture · Vijayawada, Andhra Pradesh, India

May 2024 · **Bachelor of Planning**

- *Coursework:* Programming, Geoinformatics, Big Data, Transportation Planning, Logistics, GIS
- *Honors:* Thesis Runner-up, Ranked #1 in Final Year
- *Thesis:* Geospatial decision model using street images, computer vision & LLMs for facility location planning

Projects

R.E.D.A.C.T.: AI Privacy Manager Desktop App · On-Device AI Hackathon Winner · [Github](#)

Tools Used: ElectronJS, JavaScript, LLaMA, LLMs, AI Agents, Tool-use, Structured Responses

AI Website Cloner: LLM-Powered Full-Stack App · Top 50 from 1000+ applicants by Orchids (YC W25) · [Github](#)

Tools Used: Python, FastAPI, NextJS, Gemini, AI Agents, LLMs

GenAI Lens: Blockchain-Powered AI Content Verifier · Blockchain Innovation Track, HackNYU Winner · [Github](#)

Tools Used: Blockchain, Solana, ReactJS, LM Studio, LLMs, Cryptographic Hashing

Additional Information

Hackathon Winner (Blockchain Innovation Track), HackNYU 2025, 600+ participants

Hackathon Winner, Qualcomm On-Device AI Hackathon 2024, solo project

Hackathon Winner (Best Technical Contribution), Data Dive 2025 (King's College London)

HackerRank **Global Rank #1** (Top 0.04%), Python Data Structures & Algorithms