



EDUCATION

Netaji Subhas University of Technology (NSUT), Delhi

Aug 2025

B.Tech in Computer Science and Engineering (Internet of Things) | – Expected 2029

- CGPA: 9.182 (Semester 1-2)
- Relevant Coursework: Data Structures and Algorithms, Discrete Mathematics, Probability and Statistics, Numerical Methods, Computer Programming (Python), Digital Logic Design, Differential & Integral Calculus.

XII (CBSE) | DAV Pushpanjali Enclave, Delhi, 2025 | Score: 91% Overall (95.3% in Physics, Chemistry, and Mathematics)

PROFESSIONAL EXPERIENCE & EXTRACURRICULARS

Junior Developer

(July 2026 -Present)

Nalum

- Collaborated across a 20+ developer team to build the official open-source alumni network platform for NSUT
- Designed an asynchronous geocoding request queue to handle Nominatim API rate limits (1 req/sec), preventing server crashes during peak alumni onboarding traffic.
- Improved the interactive [alumni map](#) interface with dynamic search filtering, coordinate caching, and optimized geospatial rendering.
- Optimized frontend search components using query debouncing and smooth layout animations to reduce redundant render cycles.

PROJECTS

AURA Quant Pipeline

May 2026

Python, FastAPI, Vanilla JS

- Built an end-to-end quantitative trading pipeline for the NIFTY universe, engineering log-return-based alpha signals (RS, risk-adjusted RS, beta, rolling regression) with multi-factor technical and statistical screening.
- Designed dynamic portfolio construction with alpha-weighted, beta-adjusted allocations and ATR-based stop-loss risk management; trained a logistic regression model to estimate trade win probabilities.
- Deployed an asynchronous FastAPI backend with custom 60-minute TTL cache and a Vanilla JS/CSS frontend to deliver near-real-time stock scans and quantitative insights.

Competitive Programming Automation Pipeline

May 2026

Python, GitHub Actions, JavaScript, REST APIs

- Designed and deployed a serverless, three-stage data pipeline (Ingestion, Processing, Presentation) to automatically archive and categorize optimized C++ solutions by rating.
- Built a Python-based CI/CD automation bot that orchestrates repository state changes, dynamically queries Codeforces REST API to fetch meta data and builds a structured database index.
- Created a high-performance vanilla JavaScript frontend to dynamically render localized problem metrics and progression tracking, completely decoupled from the data ingestion layer.

LEADERSHIP & EXTRACURRICULARS

Finance and Economics Society, NSUT

July 2026 – Present

Sponsorship & Technical Associate

- Spearheaded corporate outreach by pitching to 30+ corporate POCs to secure sponsorships for annual flagship college events

Enactus NSUT

Nov 2025 – Present

Tech Member

- Developed responsive timeline layouts and optimized visual hierarchy for the Aspire Fest and official society web platforms.
- Coordinated and Organized Enactus NSUT's flagship event 'ASPIRE' 2026

SKILLS & TECHNOLOGIES

Languages: Python, C++, TypeScript, SQL

Frameworks & Libraries: FastAPI, React.js, Pandas, Numpy

Developer Tools & Infrastructure: Git, GitHub, GitHub Actions, PostgreSQL

Core Competencies: Data Structures & Algorithms, System Design Fundamentals