

## EDUCATION

### Stony Brook University

Master of Science in Computer Science (CGPA: 3.67/4.0)

Expected May 2026

New York, USA

- Relevant Coursework: Algorithms, Operating Systems, Wireless Networks, Data Structures

### University of Mumbai – Thadomal Shahani Engineering College (TSEC)

Bachelor of Engineering in Computer Engineering (CGPA: 9.05/10)

May 2024

Mumbai, India

- Relevant Coursework: Databases, Computer Networks, Distributed Systems

## EXPERIENCE

### Meta & Major League Hacking

Jun 2025 — Sep 2025

*Production Engineering Fellow*

Remote

- Selected for a competitive 12-week **Production Engineering** fellowship to build scalable systems under industry mentorship.
- Engineered system telemetry pipelines using **Prometheus & Grafana**, improving observability and enabling incident detection.
- Deployed and managed containerized applications using **Docker**, configuring **Nginx** reverse proxies to handle high-volume traffic.
- Developed internal tooling and dashboards with **Python** and **React.js** to monitor fleet health and visualize real-time system metrics.

### Aumsat Technologies

Jun 2023 — Oct 2023

*Software Developer Intern*

Mumbai, India

- Architected a data processing pipeline handling **500+ geospatial datasets**, driving data-driven urban planning decisions.
- Automating backend workflows using **Python**, reducing data ingestion and processing latency by **40%**.
- Developed RESTful APIs using **Flask** and integrated map-based visualizations, optimizing the retrieval of large-scale location data.

## PROJECTS

### Open Source Security Research – MetaMask

Jan 2025 — Dec 2025

- Researched Ethereum address poisoning, typosquatting, and domain drop-catching attacks affecting thousands—**175K attempts**.
- Designed detection logic using address similarity, tx history, zero-value flagging, reducing phishing risk by **70%** for targeted users.
- Contributed mitigation strategies to MetaMask's codebase, improving wallet safety and resilience against top phishing vectors.

### ZapMap - EV Charging Infrastructure | *Flask, Docker, Microservices*

Oct 2023 — May 2024

- Architected a microservices-based platform utilizing **Docker** for containerization, ensuring consistent deployment environments.
- Optimized system performance by engineering a custom **A pathfinding algorithm**, reducing route calculation latency by **60%** compared to standard Dijkstra implementations.
- Designed high-availability REST APIs to integrate multiple third-party providers, maintaining **98% uptime** during testing.

### Rashi Pay - Offline Payment Interface (Smart India Hackathon 2022) | *React Native, TailwindCSS, Express.js*

Mar 2022 — Aug 2022

- Built an offline digital payment app using **Bluetooth**, enabling **40% faster P2P transfers** without internet.
- Winner of **Smart India Hackathon 2022** among **400 teams**, delivering a cross-platform solution with React Native + Express.js.
- Secured **10,000+ test transactions** via **2048-bit RSA encryption**, ensuring safe and reliable P2P payments.

### Alpha Trading - Real-Time Market Data System | *React.js, WebSockets, Firebase*

Dec 2021 — Mar 2022

- Engineered a **low-latency** trading simulation platform processing real-time WebSocket feeds for **500+ NSE stocks**.
- Optimized application performance by implementing efficient state management to handle high-throughput market ticks.
- Integrated a predictive data pipeline using LSTM neural networks, providing historical trend analysis and 30-day market forecasts with **85% accuracy**.

## TECHNICAL SKILLS

### Languages

Python, TypeScript, SQL, Bash/Shell Scripting, C++

### Systems & Networking

Linux, TCP/IP, DNS, HTTP/S, Nginx, Load Balancing, OS Internals

### Infrastructure & Cloud

AWS, Docker, Kubernetes, Terraform, CI/CD (Github Actions)

### Observability & Tools

Prometheus, Grafana, Splunk, Git

### Backend & Databases

MySQL, PostgreSQL, MongoDB, Redis, REST APIs, gRPC

## ACHIEVEMENTS

- Winner at **HopperHacks 2025** (Best Overall Project) and **HackNYU 2025** (Best Use of Streamlit) among **235+ projects**. 2025
- Ranked top 20 at Harbinger 2.0 RBI International hackathon out of **363 teams from 22 countries** for scalable blockchains. 2023
- Winner at **Smart India Hackathon 2022** among **30,000 teams nationwide** for developing an offline payments interface. 2022

## PUBLICATIONS

- Published “A Cloud-Based Architecture for EV Charge Station Finder with Efficient Scheduling” at **CSA 2024 Conference**. 2024