

Harsh Shah

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LinkedIn — GitHub — Portfolio

EDUCATION

Stony Brook University

Master of Science

New York, USA
2024-08 – 2026-05

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

University of Mumbai – Thadomal Shahani Engineering College

Bachelor of Engineering

Mumbai, India
2020-08 – 2024-05

- Relevant Coursework: Databases, Computer Networks, Web Systems

EXPERIENCE

Meta & Major League Hacking

Production Engineering Fellow

Remote
2025-06 – 2025-09

- Selected for a competitive 12-week, course-based Production Engineering fellowship with mentorship from industry-experts.
- Built internal dashboards and monitoring UIs using React.js and Chart.js, improving observability for containerized systems.
- Built and deployed backend infrastructure using Docker, Linux, and Nginx for scalable analytics platforms.
- Designed system telemetry pipelines using Prometheus & Grafana, improving observability & reliability.

Aumsat Technologies

Software Developer Intern

Mumbai, India
2023-06 – 2023-10

- Built a ground subsidence detection system processing 500+ geospatial datasets, enabling data-driven urban planning decisions.
- Consumed Python/Flask APIs and integrated map-based visualizations using Leaflet.js and custom UI widgets.
- Performed backend automation & data pipeline optimization in Python, reducing processing times by 40%.

PROJECTS

ZapMap Electric Vehicle Charging Station Locator

Link

Flutter, Flask, Docker

- Designed an EV charging platform with microservices, REST APIs, serving 100+ stations at 98% uptime.
- Engineered a custom A* pathfinding algorithm, cutting route calculation time by 60% vs. Dijkstra's algorithm.
- Integrated 3+ APIs (TomTom, eDRV, Stripe) for navigation, charger status, and secure payments with 99.9% availability.

Rashi Pay - Offline Payment Interface

Link

React Native, TailwindCSS, Express.js

- 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

Link

React.js, Firebase, TailwindCSS

- Developed a real-time paper trading platform with live updates for 500+ NSE stocks.
- Achieved 85% prediction accuracy using an LSTM model for 30-day stock forecasting.
- Optimized platform performance with efficient state management and real-time data streaming.

TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C++, JavaScript, TypeScript
- **Frontend Development:** React.js, Next.js, Angular (basics), component-driven UI
- **Backend Development:** REST, GraphQL, gRPC, microservices, object-oriented design

- **Databases:** PostgreSQL, MySQL, MongoDB, Redis
- **Cloud Platforms:** AWS, Azure, GCP, Cisco Cloud

ACHIEVEMENTS

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

PUBLICATIONS

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