

SAMARTH VENKATESH MURTHY

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EDUCATION

Stevens Institute of Technology
Master of Science in Computer Science

Aug 2025 – May 2027
Hoboken, NJ

MVJ College of Engineering
Bachelor of Engineering in Computer Science (Data Science)

Jun 2020 – May 2024
Bengaluru, India

EXPERIENCE

Autoliv
Software Developer Trainee

Bengaluru, India
Mar 2024 – Mar 2025

- Built an IT Resource Manager web application (SharePoint) to centralize asset tracking across 1,000+ devices, designing the underlying database schema and data model, and replacing a manual offboarding process for 100+ employees per quarter.
- Maintained a production MS SQL Server database for a legacy system, writing SQL queries, stored procedures, and RESTful data retrieval logic that directly impacted business operations, with regular QA to ensure data accuracy.
- Collaborated with cross-functional teams using Git for version control, conducting code reviews and maintaining clean commit histories.

Data Analyst Intern

Jan 2024 – Mar 2024

- Analyzed complex financial datasets for a 20-member finance team and produced stakeholder reports, replacing a fully manual process; designed Power BI dashboards for real-time performance metrics.
- Built automated Python data pipelines to extract, transform, and load operational data into reporting dashboards, conducting QA checks and evaluating system performance in real time.

ISKCON
Frontend Web Developer Intern

Bengaluru, India
Jul 2023 – Sep 2023

- Upgraded an existing SPA (Angular, HTML, CSS, JavaScript) to introduce online attendance tracking and event/class registration, replacing a manual in-person process and driving a significant increase in site traffic.
- Enhanced page navigation and UI/UX across the site, producing clean, maintainable front-end code within a structured development workflow.

PROJECTS

Feel: Micro-Journaling App | *Next.js, React, Firebase*

- Contributing as a collaborator on a full-stack SPA built with Next.js and a Firebase backend, owning the mood-tracking and consistency-calendar features end-to-end on a dedicated feature branch.
- Designed the UI components and data model for daily mood entries and streak visualization, working from feature spec through implementation and code review within a Git-based team workflow.

Smoke Free Timer | *Vanilla JS, HTML, CSS, Supabase (PostgreSQL), Vercel*

- Built and deployed a full-stack web app (smokefreetimer.com) with a Supabase/PostgreSQL backend, enabling users to track streaks with real-time timers, account-based persistence, and a clean, responsive UI.
- Implemented sign-up, sign-in, and password-reset flows using Supabase Auth, with a persistent user profile system, a friends/leaderboard system, and live elapsed-time state synced in real time.
- Owned the full development lifecycle as a solo developer, from schema design and API integration through CI deployment on Vercel.

Together | *TypeScript, React Native, Expo, Node.js/Express, Firebase (Firestore)*

- Built a cross-platform TypeScript app (React Native, Expo Router) for real-time location sharing between paired users, with live map pins, GPS tracking, and dead-reckoning motion estimation.
- Designed a Node.js/Express REST API backend in TypeScript with the Firebase Admin SDK, implementing auth middleware and endpoints for pairing, consent, location, and device status.
- Built a consent-based pairing flow and device status monitoring (battery, network, sensors) so location sharing stays accurate and privacy respecting for both users in a pair.

Infra-Armor Chrome Extension | *Python, JavaScript. Published Nov 2024, Intl. Journal of Research Publications and Reviews*

- Led a team building a Chrome extension for time-based session control, data-leakage prevention, and malicious-site/fake-ID detection; presented at MVJ Project Expo 2024.
- Architected a multi-layer security pipeline coordinating background scripts, content scripts, and a Python backend to enforce session policies and detect threats in real time.

SKILLS & TECHNOLOGIES

Languages: Python, TypeScript, JavaScript, SQL, Java, R, HTML/CSS

Frontend & UI/UX: React, React Native (Expo), Next.js, Angular, responsive design, component-based UI development

Backend & Databases: Node.js/Express, Supabase, PostgreSQL, MS SQL Server, MySQL, Firebase, RESTful APIs, database design, query optimization

AI/ML: PyTorch, CNNs, LightGBM, Scikit-learn, model evaluation & tuning, image classification

Security: Web application security fundamentals, session control, threat detection, secure coding practices

Tools & Platforms: Git/GitHub, Vercel, Azure, Power BI, Streamlit, Anaconda

Certifications: Python, Java, C - Udemy | R, HTML - Spoken Tutorial (IIT Bombay)