

CHINMAY SUJITH NAIR

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SKILLS

- Languages: Python, Java, HTML, CSS, TypeScript
- Frameworks: Node.js, React, Next.js, Tailwind CSS, PyTorch, TensorFlow, SpacetimeDB, Fetch.ai uAgents
- Version Control & Tools: Git, GitHub, WebSockets, Web Push (VAPID), Zod, Playwright, Vitest

EXPERIENCE

iCode Troy: *Instructor*

May 2026 – Aug 2026

- Designed and implemented lesson plans for varying coding languages and concepts — including Scratch, HTML/CSS, Python and its libraries (turtle, socket, tkinter, pygame) — for students aged 5-10
- Introduced foundational generative AI literacy and usage skills to students

Paraxis LLC.: *Software Engineering Intern*

Jun 2025 – Aug 2025

- Overhauled ed-tech platform UI and created Brilliant-style learning flow, earning startup investor interest of \$100,000
- Constructed interactive lesson modules through TypeScript and Next.js, including dynamic content rendering and real-time progress tracking
- Configured auth flow and RLS policies for Supabase backend

PROJECTS

ProxiPrompt.ai – Real-Time Local Intelligence Engine (MHacks '26)

Oct 2026

- Built an uncertainty-aware agentic platform at MHacks '26 querying nearby humans as physical sensors for real-time location insights
- Deployed an autonomous Python uAgent on Agentverse using Fetch.ai Chat Protocol & ASI:One LLM API to plan evidence needs and synthesize answers
- Architected an authoritative real-time state machine in SpacetimeDB (22 tables, 45 reducers, 27 views) enforcing private location security and lifecycle clocks
- Developed an event-driven Node.js/TypeScript orchestrator with WebSocket subscriptions and VAPID Web Push to dispatch targeted micro-surveys
- Engineered a deterministic multi-factor confidence engine in TypeScript (Zod/Pydantic) weighting freshness decay, source reliability, and consensus

ECG Machine Learning Independent Research

Jun 2025 – Apr 2026

- Constructed a custom ML architecture for 12-lead ECG arrhythmia classification, achieving a peak weighted F1 score of 0.90 across 5 clinically tailored classes
- Built a reprocessing pipeline that combines 4 separate and varied ECG datasets for training and testing
- Implemented stochastic data augmentation through Gaussian noise, baseline wander, time shifting, etc.
- Conducted ablation studies to determine optimal methods for zero-shot cross-dataset generalization

EDUCATION

University of Michigan – B.S. in Computer Science || Ann Arbor, MI

Aug 2026 – May 2028

Troy High School || Troy, MI

Aug 2022 – Jun 2026

- GPA: 4.00 UW, 4.29 W | SAT: 1570
- APs and scores: AP Computer Science A (5), AP Calculus BC (5), AP Chemistry (5)
- Dual Enrollment @ Lawrence Technological University: Calculus 3, Linear Algebra
- Coursework: Data Structures and Algorithms