ARJUN HARIHARAN

cognitivetech52@gmail.com | portfolio | Based in the U.S.

EXPERIENCE & LEADERSHIP

Chief Technology Officer   **2025 – Present**

NoRegretsPrep

- Led full-stack development of a real-time multiplayer SAT prep platform with gamified competitive learning.
- Built scalable systems using Next.js, Supabase, WebSockets, and Stripe (auth, matchmaking, leaderboards).

Software Engineering Intern   **2025 – Present**

Jdable (Nonprofit)

- Built cross-platform iOS and Android apps for assistive smart devices supporting users with disabilities.
- Integrated on-device ML inference using CoreML and TensorFlow Lite to optimize latency.

Lead Programmer   **2024 – Present**

VEX Robotics Team

- Sole programmer for robot firmware and autonomous systems in C++; earned Judges and Design Awards.

PROJECTS

Linkerra | Rust, Dart, Tauri, Next.js   *2025 – Present*

- Built a cross-platform desktop app for peer-to-peer file transfer and local workflow automation.

Echo | Next.js, React, TailwindCSS, Supabase   *2025*

- Developed a full-stack realtime chat application with authentication, private/group messaging, and presence indicators.
- Designed secure database schema and realtime subscriptions using Supabase.

Tetris AI | Python   *2024*

- Implemented a genetic algorithm using heuristic evaluation to achieve near-unbounded gameplay scores.

EDUCATION

William P. Clements High School   **Expected Graduation: 2027**

Relevant Coursework & Programs

- CS50x, CS50P, CS50 AI; Princeton PACT; NeuroVista; Catalyst Fellowship; Russian School of Mathematics (Calc).

ACHIEVEMENTS

USACO Silver Division; 1st Place — DAIS Code Canvas (International); Best of Water — Kurius Hacks

3rd Place — HackVortex; Judges & Design Awards — VEX Robotics; 10+ Top-5 — Science Olympiad

TECHNICAL SKILLS

Languages: Python, TypeScript, HTML/CSS, Dart, Swift, C++, SQL, Rust

Frameworks: Next.js, React, TailwindCSS, Flutter, FastAPI, Flask, Docker, Tauri

Tools: Git, GitHub, Xcode, Supabase, Firebase, Figma

Hardware: VEX, Arduino, Raspberry Pi