

# ARJUN HARIHARAN

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

## EDUCATION

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### William P. Clements High School

Expected Grad: 2027

*External Coursework: (Harvard edx) CS50x, CS50P, CS50 AI, Princeton PACT, RSM, NeuroVista Research Program, Catalyst Fellowship Research Program*

## EXPERIENCE

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### CTO

2025 – Present

*NoRegretsPrep*

*Core Executive*

- Built full ML platform for no-code model training with Next.js, TailwindCSS, Supabase, Stripe, Websockets.
- Implemented complete authentication, scoreboards, question retrieval, , and optimized storage calls.
- Identified interest in a particular niche as a result of a high users through a beta launch.

### SWE Intern

2025 – Present

*Jdable*

*App Developer*

- Developed iOS and Android app for our custom created smart devices: manages settings, visualizes live feedback, ensures accessibility. Utilizes ML optimization with CoreML for iOS and Tensorflow Lite for Android

### Lead Programmer

2024 – Present

*VEX Robotics Team*

- Sole programmer of robot control system in C++, covering drivetrain, autonomous mode, and competition logic.
- Collaborated on mechanical strategy while handling all firmware, driver code, and debug routines.

## PROJECTS

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### Linkerra | Rust, Dart, Tauri, Next.js

2025 – Present

- Solo-built cross-platform MacOS app for unlimited P2P data transfer, smart syncing, and file workflows. Fully deployed and downloadable.

### Tetris AI | Python

2024

- Built genetic algorithm-based AI using heuristics (aggregate height, bumpiness, etc.) to achieve near-unlimited scoring in Tetris.

## ACHIEVEMENTS

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**USACO Silver Division** – Competitive programming contest recognized nationally.

**1st Place – DAIS Code Canvas Hackathon** – International competition; raised funds for education charity.

**3rd Place – HackVortex, Best of Water – Kurius Hacks, 10+ Top-5 Awards – Science Olympiad**

## TECHNICAL SKILLS

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**Languages:** Python, Rust, TypeScript, Dart, SQL, HTML/CSS, Swift, C++ (w/ Hardware)

**Frameworks:** React, Flutter, TailwindCSS, DaisyUI, FastAPI, Docker, Tauri, NextJS, Vue, Flask, etc.

**Tools:** Git, Firebase, Supabase, Canva, Framer, Figma, Render, Rive, GitHub, XCode

**Hardware:** Vex, Arduino, Raspberry PI