

# ARJUN HARIHARAN

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

## EXPERIENCE & LEADERSHIP

<b>Chief Technology Officer</b> <i>NoRegretsPrep</i>	<b>2025 – Present</b>
<ul style="list-style-type: none"><li>– Led architecture and full-stack development of a real-time multiplayer SAT preparation platform focused on gamified competitive learning.</li><li>– Built scalable web systems using Next.js, Supabase, WebSockets, and Stripe, including authentication, matchmaking, leaderboards, and session persistence.</li><li>– Owned deployment workflows, backend performance debugging, and data model optimization during rapid iteration and beta testing.</li></ul>	
<b>Software Engineering Intern</b> <i>Jdable (Nonprofit)</i>	<b>2025 – Present</b>
<ul style="list-style-type: none"><li>– Developed cross-platform iOS and Android applications for custom assistive smart devices supporting users with disabilities.</li><li>– Implemented real-time device control, data visualization, and accessibility-focused UI components.</li><li>– Integrated on-device machine learning inference using CoreML (iOS) and TensorFlow Lite (Android) to optimize latency and resource usage.</li></ul>	

## PROJECTS

<b>Linkerra   Rust, Dart, Tauri, Next.js</b>	<b>2025 – Present</b>
<ul style="list-style-type: none"><li>– Designed and built a cross-platform desktop application for peer-to-peer file transfer, smart syncing, and local workflow automation.</li><li>– Implemented secure local networking, synchronization logic, and cross-platform build pipelines; application is publicly downloadable and maintained.</li></ul>	
<b>Echo   Next.js, React, TailwindCSS, Supabase</b>	<b>2025</b>
<ul style="list-style-type: none"><li>– Developed a full-stack realtime chat application with user authentication, private and group messaging, responsive UI, and presence indicators using Next.js, React, TailwindCSS, and Supabase.</li><li>– Designed secure database schema and server logic to support persistent message history, realtime updates, and role-aware UI state transitions.</li><li>– Implemented realtime messaging backend with Supabase Realtime subscriptions and frontend state management optimized for performance and responsiveness.</li></ul>	

## EDUCATION

<b>William P. Clements High School</b> <i>Relevant Coursework &amp; Programs</i>	<b>Expected Graduation: 2027</b>
<ul style="list-style-type: none"><li>– Harvard CS50x, CS50P, CS50 AI (edX)</li><li>– Princeton PACT Program; NeuroVista Research Program; Catalyst Fellowship</li><li>– Russian School of Mathematics — Completed curriculum through Calculus</li></ul>	

## ACHIEVEMENTS

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### USACO Silver Division

**1st Place** — DAIS Code Canvas Hackathon (International)

**3rd Place** — HackVortex Hackathon

**Best of Water** — Kurius Hacks

Judges Award and Design Award — VEX Robotics

10+ Top-5 finishes — Science Olympiad

## TECHNICAL SKILLS

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**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