

# Harrison Tun

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## EDUCATION

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### Tufts University

Bachelor of Science in Computer Science GPA: 3.6/4.0

Medford, MA

Graduation Date: May 2027

## SKILLS & INTERESTS

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**Skills:** Programming languages: C/C++, Python, HTML, JavaScript, Tailwind CSS/CSS, x86 Assembly; Computer software/frameworks: Git/GitHub, React, Microsoft Office Tools, Mac OS; Languages: English, Cantonese, Spanish

**Interests:** AI, ML, Data Science, Cloud Computing

**Courses:** Data Structures, Discrete Math/Algorithms, Machine Struct w/ Assembly Programming, Linear Algebra

## WORK EXPERIENCE

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### NearStudios

Software Engineering Intern

Remote

Apr 2025 - Present

- Developed a robust CSV parser and integrated it with a custom Discord bot, automating the tracking of over 10,000 Kickstarter backers and reducing manual data entry time by 60%.
- Built a cross-community platform for content creators, game developers, and players, combining a React.js web app with Unreal Engine 5 gameplay features and Twitch integrations to enable interactive livestream experiences and real-time audience participation.

### Triple Net Investment Group

Intern

Rockville, MD

May 2025 - Aug 2025

- Improved overall website performance, usability, and UI consistency through iterative front-end enhancements and refactors.
- Built a "Top 10" news search feature powered by Google, delivering fast, relevant results with clean filtering/sorting and a polished results UI.
- Implemented responsive layouts and accessibility-minded components to ensure a smooth experience across devices.

### Avenel Swim Club

Assistant Head Coach

Potomac, MD

May 2024 - Aug 2024

- Designed and led structured swim practices, balancing endurance, speed, and race-specific sets to support peak performance.
- Mentored and motivated swimmers, reinforcing accountability, confidence, and a high-performing team culture.

## PROJECTS

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### CSV to Discord

Developer

- Developed an automated backer onboarding pipeline in **Python** using the **Discord API** to parse Kickstarter CSV exports, generate personalized one-time invite links, and auto-assign Discord roles based on donation tiers.
- Streamlined backer verification and perk delivery by eliminating manual role management, improving accuracy and speeding up access for supporters.

### Flappy Bird

Developer

- Built a Flappy Bird-style game in C++ using SDL2, implementing a real-time game loop, physics-based movement, collision detection, and score tracking.
- Designed modular game components (bird, pipes, renderer/input) to support iterative feature development and debugging.

### File Search Engine

Developer

- Implemented a grep-like utility in C++, adding enhanced features (e.g., recursive search, case-insensitive matching, line numbers, and context output) while maintaining compatibility with common grep behaviors.

## LEADERSHIP EXPERIENCE

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### Engineers Without Borders

Tech Group Lead

Medford, MA

Jan 2025 - Present

- Led WiSH project efforts by designing and building a **MongoDB** database to track and monitor water tank levels in Makweleni, Malawi, enabling reliable logging and visibility into usage trends.