

# Taha Rashid

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## Technical Skills

**Languages:** Python, Java, Swift, JavaScript, HTML, CSS, C, C# (Unity)

**Frameworks/Libraries:** SwiftUI, Node.js, asyncio (Python), Bootstrap, Axios (JavaScript), BeautifulSoup4 (Python)

**Tools:** Git, GitHub, VS Code, Xcode, Eclipse, CLion, Unity, Firebase, Postman, Figma, Ollama

## Projects

**AnimeTracker (iOS)** | *Swift, Python, Git, Xcode, Firebase, SwiftUI, Figma, Ollama*

Oct. 2024 – Present

- Developing a native iOS application using SwiftUI to allow users to **efficiently track anime episode release schedules**
- Migrated data management from a local JSON file to **Firebase** to enable real-time updates and easy retrieval of data for a database of **980+** animes
- Improved database querying and updating by **93.9%** using **Tasks and async functions** in Swift
- Created 5+ pages in **Figma** including home, search, and details pages using a glassmorphic theme to incorporate modern and user-friendly designs
- Improved data retrieval of **900+** shows from **TVDB and AniList APIs** by **93%** using **asyncio and async functions** in Python
- Optimized writes to database by **94.88%** by implementing batch writes
- Implemented a **local AI model** (Mistral) using Ollama to create AI recaps for shows
- Utilized Git to document the development progress efficiently

**PerfectFit (Website)** | *HTML, CSS, JavaScript, Git, Bootstrap*

Sep. 2024 – Nov. 2024

- Developed a **6-page** website with a team of 5 to showcase the features of a mock clothes fitting app
- Designed a simple home page using **HTML/CSS and JavaScript** that enhanced user interactivity by employing smooth transitions and hover effects
- Built a persistent navbar and a footer using **Bootstrap** streamline navigation between pages
- Utilized **Git** to coordinate the development of **20+** files between all team members

**Anki Japanese Plugin (Python)** | *Python, BeautifulSoup4, jamdict, asyncio*

June 2024

- Developed a **plugin for the Anki flashcard app** to parse **5,999** flashcards and append the transitivity of Japanese verbs
- Optimized processing time by **98.8%** by replacing web scraping using **BeautifulSoup4** with asynchronous lookups using a local Japanese dictionary (jamdict) via **asyncio**, reducing run time from **35 minutes to 30 seconds**

## Experience

**Software Engineer (Volunteer)** | *C, FreeRTOS, Raspberry Pi Pico*

Oct. 2024 – Present

*University of Ottawa*

*Ottawa, ON*

- Developed and tested an accelerometer sensor using **C in FreeRTOS** on a **Raspberry Pi Pico**
- Quickly learned to **code for embedded systems**, asking teammates for feedback and resources and reviewing previously created code
- Learned to read **technical documentation** to correctly implement data fetching from the accelerometer sensor

**Media Head**

Jan. 2023 – June 2024

*Jack.org Eastside Secondary School Branch*

*Belleville, ON*

- Collaborated with a **12-person** team to **organize school-wide events**, including video production for the Christmas assembly that was positively received by **900+** students and staff
- Led **4** smaller teams responsible for **scripting and recording**, ensuring timely completion of tasks
- Quickly acquired new skills when required, learning **LumaFusion** as the sole video editor to meet a **2-week** deadline

## Education

**University of Ottawa**

Ottawa, ON

*Bachelor's in Software Engineering (CO-OP)*

*Expected Graduation: Dec. 2028*

**GPA:** 3.94/4.0 — Available for 4 months beginning May 2025