Matthew Vu

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EDUCATION

York University | *GPA: 7.61/9*　　　　　　　　　　　　　　　　　　　Toronto, ON
Honours Bachelor of Science in Computer Science　　　　　　　　　　　*Sep. 2024 – May 2026*

Sheridan College | *GPA: 3.78/4*　　　　　　　　　　　　　　　　　Oakville, ON
Advanced Diploma of Software Development and Network Engineering　　*Sep. 2020 – Dec. 2023*

PROJECTS

Sheep Guard | *JavaScript, Three.js, Vite, Vercel, Supabase, Gemini, Groq*
- Built an AI-powered Chrome extension that blocks sites across **16** categories, replacing blocked pages with a gamified sheep island that visualizes user discipline and streak progress
- Architected a 3-tier blocking system using Chrome's DNR engine and Bloom filters, covering tens of thousands of domains per category within a **30,000**-rule budget
- Implemented AI validation layer for whitelist and exception requests, reducing impulsive bypass attempts by analyzing user-provided justifications in real time
- Implemented a streak and reward system with cloud sync, supporting persistent state across multiple devices and **50+** unlockable rewards

Journey with Bobo | *React, Python, FastAPI, Supabase, Groq*
- Developed a gamified habit tracker with an AI-powered companion featuring tier-based achievements with **60+** unlockable rewards
- Implemented AI assistant, real-time analytics and obstacle system that categorizes user friction points and provides personalized solutions
- Optimized database queries, reducing data retrieval time by **30%**
- Designed a responsive UI to improve user experience and management efficiency for **100+** concurrent habits per user

Ren | *React, Next.js, Three.js, Zustand, Supabase, Gemini, Groq*
- Built a full-stack habit-tracking web app with a companion Chrome extension, which turns user's new tab into a real-time 3D sushi restaurant rendered in Three.js that dynamically reflects user habit streaks
- Integrated dual AI assistants: a coaching assistant that breaks goals into **4**-tier habits and a data analyst that surfaces streak patterns, mood correlations, and performance insights
- Implemented global and friends leaderboards with **top-5** rankings and **20+** unlockable rewards (staff, guests, decorations)

EXPERIENCE

Software Developer　　　　　　　　　　　　　　　　　　　　　　May 2023 – Aug. 2023
SIRT　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Toronto, ON*
- Debugged and extracted a **10K+** entry animation dataset using Python, reducing asset integration time by **25%**
- Prototyped gameplay features in Unreal Engine using C++, gaining engine-level systems experience

Software Developer　　　　　　　　　　　　　　　　　　　　　　Jan. 2022 – April 2023
Cloud DX　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Oakville, ON*
- Conducted system integration and testing for the project presentation at Avatar XPrize 2022
- Built registration workflow, leading to **50%** faster component integration into the main project
- Developed facial recognition to improve detection accuracy and responsiveness by **20%**
- Developed near/far hand interaction features for the system, optimizing performance by **30%**
- Collaborated with medical and technical stakeholders for iterative design improvements

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, C#, C++, C, SQL
Frameworks: React, Next.js, Node.js, FastAPI, Flask, ASP.NET, Spring
Databases: Supabase, MongoDB, MS SQL
Tools: Git, Vercel, Three.js, Zustand, Vite