# Hieu Vu

437-214-8656 | matthewvu2719@gmail.com | linkedin.com/in/matthew-hieu-vu/ | github.com/matthewvu2719

## EDUCATION

**York University**                                                                     Toronto, ON
*Bachelor of Science in Computer Science*                                *Sep. 2024 – May 2026*

**Sheridan College**                                                                   Oakville, ON
*Advanced Diploma of Software Development and Network Engineering*      *Sep. 2020 – Dec 2023*

## PROJECTS

**Journey with Bobo** | *React, Python, FastAPI, Supabase, Groq*
- Developed a gamified habit tracker with an AI-powered companion with tier-based achievements with 60+ unlockable rewards
- Implemented AI chatbot, 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

**AdmitTree** | *Python, React, Flask, MongoDB, DigitalOcean*
- Built a centralized application hub that transforms scattered Canadian university admission requirements and road maps into a unified, actionable checklist
- Integrated DigitalOcean AI agent to create a specialized and personalized road map for user and also act as an AI consultant
- Built a knowledge base for **20+** universities with multiple programs

**ShopFun POS** | *MongoDB, Express.js, React, Node.js*
- Built a full-stack scalable POS application supporting user registration, authentication, cart management, and billing
- Designed RESTful APIs with Express.js and Node.js to handle inventory operations (add/delete/edit/get)
- Integrated React for a responsive front end and MongoDB for real-time data persistence
- Optimized query performance and state updates, improving system responsiveness by **25%** and ensuring reliable logging of all transactions and customers

## EXPERIENCE

**Software Developer**                                                          May 2023 – Aug. 2023
*SIRT*                                                                                  *Toronto, ON*
- Conducted software development and learned new technologies to contribute to the main project
- Debugged and extracted a **10K+** entry animation dataset, leading to a **25%** faster asset integration into the main system

**Software Developer**                                                          Jan. 2022 – April 2023
*CloudDX*                                                                             *Oakville, ON*
- Developed and debugged registration workflow, leading to **50%** faster component integration into the main project
- Debugged 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
- Supported system integration and testing for the project presented at Avatar XPrize 2022

## TECHNICAL SKILLS

**Languages**: Java, Python, C#, C/C++, SQL, JSON, JavaScript
**Frameworks**: React, Node.js, JUnit, ASP.NET, Spring, FastAPI
**Database**: MS SQL, MongoDB, Supabase