THANH HA NGUYEN

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EDUCATION

McMaster University   Hamilton, Ontario
Honours Computer Science Co-op (B.A.Sc.), Minor in Economics   *Sept 2021 - Present (Expected graduation May 2026)*

CERTIFICATES

Microsoft Certified: Power BI Data Analyst Associate (Score: 803/1000) (Jan 2024-Jan 2025)
mabl Skills Certification: Foundations (Jul 2025)

EXPERIENCE

Software Developer Intern - Frontend and Backend   May 2024 – Aug 2025
Evertz Microsystems Ltd.   *Burlington, Canada*
- Worked mainly as a frontend developer intern in a dynamic, **cross-functional team** of 12 backend developers, frontend developers, and QA testers, collaborating to deliver high-quality features and improvements.
- Utilized **Angular and TypeScript** to build, maintain, and enhance responsive, user-friendly frontend components, ensuring alignment with project requirements and design specifications.
- Integrated **AWS services (Lambda, S3, DynamoDB)** in occasional backend tasks.
- Utilized **mabl** in our CI/CD pipeline to develop robust end-to-end test suites, boosting test coverage by 90%.
- Improved the **performance and scalability of the company's cloud platform EIO** (https://evertz.io/), by optimizing code, reducing load times, and contributing to best practices in performance tuning.

Front-end Developer   May 2023 – Aug 2023
Harmonysoft   *Hanoi, Vietnam*
- Developed a music center management user interface to **manage up to 200 students**, teachers, classrooms, and types of equipment, resulting in a **time reduction of 70% of administrative tasks.**
- Incorporated **HTML**, **CSS**, **JavaScript**, and **ReactJS/ React Native** to build web/ mobile applications, and used **Figma** to design mobile application.

PROJECTS

RTSL - Real Time Sign Language | *Python, PyTorch, Vue, Mediapipe, Numpy, Hugging Face*   Sept 2025 – Apr 2026
- Building a real-ASL translation pipeline that recognizes continuous signing from live video and converts it into structured gloss sequences using a CNN–GRU temporal model with sliding-window inference and smoothing.
- Developing a sentence-level gloss-to-English translation module using Transformer-based sequence-to-sequence models.
- Prototyping an online-meeting translation extension to integrate ASL → English translation into Zoom/Meet/Teams, supporting accessibility for deaf and hard-of-hearing participants in live discussions.

The Dill Banh My | *TypeScript, AWS, ReactJS, Material UI, HTML, CSS*   Jun 2025 – Present
- A serverless e-commerce web app using React, hosted on AWS Amplify, enabling customers to place orders for Vietnamese bánh mì and drinks through a modern, responsive UI.
- Developed an admin dashboard with protected REST endpoints (API Gateway + Lambda) to perform CRUD operations on menu sections.
- Configured end-to-end CI/CD in AWS Amplify, automating deployment of both the frontend and backend.

SKILLS

Programming Languages: Python, Java, SQL, JavaScript, TypeScript HTML/CSS, C
Libraries: ReactJS, React Native, Numpy, PyTorch, scikit-learn
Frameworks: Angular
Others: Git, Jira, mabl, RESTful API, VS Code, Eclipse, Figma, Data Structures and Algorithms, Software Design, Windows, macOS, Linux
MS Office: Power BI, Word, PowerPoint, Excel, Outlook.