Anthony Vu

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EDUCATION

McMaster University | Honours Computer Science (Co-op) (Bachelor of Applied Science)   *Sep. 2020 - Apr. 2024*
- **CGPA: 4/4**; **Scholarships: $142,150** (Schulich Leader, Horatio Alger National Entrepreneurial Scholar)
- Placed 1st in the 2020 Thriving Online Hackathon (Global Engineering Deans Council/Petrus Communications)
- Awarded $525 as a Supply Chain & Logistics Intern for College Pro through the Experience Ventures program

University of North Carolina Wilmington | Horatio Alger Scholarship Program   *Sep. 2020 - Apr. 2024*
- **CGPA: 4/4**; Courses: Entrepreneurship, Personal Finance I, Personal Finance II, Personal Finance III

SKILLS

Languages: Python, Java, JavaScript, TypeScript, C, C++, C#, Go, GraphQL, PHP, Sass, CSS, HTML, Bash, SQL

Frameworks: ASP.NET, Angular, Express, React, Node, Laravel, ABP Commercial, Entity Framework, Flask, Tailwind

Libraries: Redux, Mongoose, Apollo Client, Bootstrap, Bulma, PrimeNG, DHTMLX, jQuery, TensorFlow, Matplotlib

Databases: IBM Db2, Microsoft SQL Server, Azure SQL, MongoDB, AWS, Firebase, Supabase, PostgreSQL, MySQL

Tools: Docker, Kubernetes, Git, Unix, Redis, RabbitMQ, Elasticsearch, Grafana, Postman, Figma, Tableau, Power BI

EXPERIENCE

BDO Canada LLP | Full-Stack Developer Intern   *May 2022 - Aug. 2022*
- Worked on **ResourceMe**, a tool that partners use to manage allocations, that has **7000+ daily active users**
- Resolved **25+ bugs** in the **front-end** and **back-end** using **ASP.NET**, **Angular**, **TypeScript**, **SQL**, and **C#**
- Proposed the use of **SonarQube** which resulted in fixing **30+ vulnerabilities**, **hotspots**, and **code smells**
- Implemented and further optimized the **Resource Hierarchy feature** to display managers and direct reports
- Engaged in daily sprint meetings and weekly brainstorming sessions following the **Scrum development process**
- Improved **soft skills** through **case studies**, **presentations**, and working alongside **Practice Leader Andrey**

McMaster University | Research Assistant   *May 2021 - Aug. 2021*
- Worked with **Vice-Provost Dr. Hranilovic** on **2 Android projects** using **Kotlin**, **SQLite**, and **Jetpack**
- Analyzed **20+ IEEE research papers** and presented **5 scientific reports** with **Matplotlib**, **Pandas**, and **SQL**
- Wrote **Python scripts** to automate **Excel** operations, such as making **Pivot Tables**, saving **2+ hours/week**
- Crowdfunded a **Galaxy Tab S6 Lite** and renovated a room with **4 LED lights** to simulate real-world data
- Consulted with **25+ PhD researchers** at the **Free-Space Optical Communication Algorithms Laboratory**
- Awarded the **Dean's Excellence Engineering Research Experience Award** and a **$6000 research stipend**

PROJECTS

Project Management DevOps Server ↗ | MongoDB, Express, React, Node, GraphQL, Apollo Client
- Similar to Azure DevOps Server, developers can create, read, update, and delete their projects on a dashboard

LaraGigs Job Listings ↗ | Laravel, Sanctum, PHP, MySQL, Blade, Alpine.js, Tailwind CSS, HTML
- Ideal employment app for the Laravel community where developers can log in, find jobs, and contact employers

Goal Setter Dashboard ↗ | MongoDB, Express, React, Node, Redux, Mongoose, JWT, JavaScript, CSS, HTML
- With log in authentication and password hashing, users can personalize tasks, track progress, and view history

Open Weather App ↗ | React, OpenWeatherMap API, GeoDB Cities API, JavaScript, CSS, HTML
- Fast searching with city autocomplete and displays feels like temperature, wind, humidity, and corresponding icons

Mumble Live Streaming Service ↗ | WebRTC, JavaScript, CSS, HTML
- Interactive real-time messaging and video calling app where users can create rooms, send invites, and share screens

QR Code Generator ↗ | QRCode.js, JavaScript, Tailwind CSS, HTML
- Lightweight tool where users must enter a valid URL and select a size to generate and download a QR Code image

ORGANIZATIONS

St. Patrick Parish | Lector, Altar Server, Youth Group Leader, De Mazenod Door   *Sep. 2010 - PRESENT*
- Awarded the **Serra International Bishop's Altar Server Award** after **1400+ hours of community service**
- Cofounded the **De Mazenod Door Program** which invited **Prime Minister Trudeau** to serve fish and chips