

Tristan Guevarra

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Education

- Queen's University**, *BASc in Computer Engineering* Sep. 2022 - Apr. 2026
- **Coursework:** Object Oriented Prog., Data Structures and Algorithms, Database Management Systems, Data Science
 - **Awards/Organizations:** Q3C, QWeb, Queen's Engineering Society, Excellence Scholarship Award

Experience

- Metergy Solutions**, *Software Developer Intern* May. 2025 -
- Developed and maintained a **C# .NET** desktop application that automated SE-04 certificate generation, reducing manual data entry time by **80%** across **100+** buildings inspected by field technicians.
 - Implemented integration with **Microsoft Dataverse**, Excel Interop, and SharePoint to streamline data flow and reporting for over **25+** technicians, enhancing field-to-office coordination
 - Automated Dataverse data corrections using **Power Apps** and **Power Automate**, cutting manual errors by **80%** across **5000+** data records.

- ThisIsElectric**, *Full Stack Software Developer* Mar. 2025 -
- Built a responsive full-stack website using **MongoDB**, **Express.js**, **React**, and **Node.js**, improving load speed by **40%** and enhancing performance across devices.
 - Optimized front-end and back-end with reusable **React** components, **Tailwind CSS**, and efficient **MongoDB** queries, cut development time by **50%** and boosted performance by **35%**.

- Queen's University - Smith School of Engineering**, *Undergraduate Teaching Assistant* Sept. 2024 - Apr. 2025
- Teaching Assistant for **Object-Oriented Programming (Java)** and **Programming for Engineers I (C)**, supporting **200+** and **800+** students respectively.
 - Selected as **1 of 3** undergraduate TAs (out of 7 total, **2%** acceptance) for Object-Oriented Programming.
 - Led interactive labs and weekly office hours, guiding students through core programming concepts such as **inheritance**, **control structures**, **debugging**, and **memory-efficient coding**.
 - Achieved **95%+ satisfaction** in lab evaluations and a **100% success rate** in assignment submissions by providing clear, structured support and timely feedback.

Projects

- FinChat AI Chatbot App** | *TypeScript, React (Next.js), Python, FastAPI, MongoDB, Tailwind CSS, HTML*
- Built a full-stack AI chatbot for **financial services** using **Next.js**, **FastAPI**, **OpenAI**, and **MongoDB**, enabling real-time insights on **TFSAs**, **RRSPs**, and **investments** with **100%** accurate responses.
 - **Simulated a bank-style experience** by handling **1,000+** finance queries with async APIs and persistent chat history, cutting latency by **40%** and boosting engagement by **30%**.

- CONFERIQ: Conference Organizer Portal** | *JavaScript, PHP, MySQL, CSS, HTML, XAMPP*
- Built a full-stack web app using **PHP**, **JavaScript**, and **MySQL** to manage **12+** conference features, cutting manual coordination by **80%** for Queen's University students.
 - Enabled real-time access to logistics and data for **20+** Queen's organizers, resulting in **95%** user satisfaction.

- Athletic Movement Categorization Desktop App** | *Python, Pandas, NumPy, Matplotlib, Scikit-Learn, PyCharm*
- Trained a **Logistic Regression** model on accelerometer data using **Pandas**, **NumPy**, and **Scikit-Learn**, achieving **90%** accuracy in classifying movements.
 - Cut preprocessing time by **25%** by converting CSVs to **HDF5** and visualizing results with **Matplotlib**.

Technical Skills

Languages: Java, Python, C/C++, C#, JavaScript, TypeScript, SQL, MySQL, PHP, HTML/CSS, CUDA
Frameworks & Technologies: React, .NET, Spring Boot, Node.js, Express.js, Django, FastAPI, MongoDB, MySQL, Power BI
Developer Tools: Git/GitHub, Azure, Entra ID, PowerShell, XAMPP, JetBrains IDEs, VS Code, Eclipse, Android Studio, Figma, UNIX/Linux CLI