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 -
- Scheduled to complete a **16-week Software Developer internship** at **Metergy Solutions - Summer 2025**

ThisIsElectric, *Full Stack Software Developer* — Mar. 2025 -
- Developing responsive website using **MongoDB, Express.js, React** and **Node.js**, enhancing online presence.
- Reusable **React** components created, reducing development time for future updates by **50%**.
- Enhanced front-end with **Tailwind CSS**, reducing code duplication by **40%** and accelerating feature rollout.
- Used **MongoDB** to manage and structure dynamic data, improving the efficiency and scalability of the back-end by **35%** through optimized queries and schema design.

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 and deploying a full-stack AI chatbot tailored for **financial services** using **Next.js**, **FastAPI**, **OpenAI API**, and **MongoDB**, enabling real-time insights on **TFSAs**, **RRSPs**, and **investments** with **100%** response accuracy through custom keyword filtering logic.
- Handled **1,000+** finance-related queries with real-time responses and reduced perceived latency by **40%** through asynchronous **FastAPI** routes and lightweight **MongoDB** interactions, simulating an **RBC-style** experience
- Designed a mobile-responsive UI using **Tailwind CSS**, integrated voice input/output, and implemented persistent chat history, improving user engagement by **30%** during peer testing.

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*
- Achieved **90%** accuracy in classifying athletic movements like walking versus jumping by training a Logistic Regression model on accelerometer data using **Pandas, NumPy,** and **Scikit-Learn**.
- Reduced preprocessing time by **25%** by converting CSV input data to **HDF5** format and visualizing model performance 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