# Tristan Guevarra

tristan.guevarra@queensu.ca | (647)-783-7424 | linkedin.com/in/tristanguevarra | tristanguevarra.com

## **Technical Skills**

Languages: Python, Java, SQL, C, C++, JavaScript, TypeScript, HTML, CSS, PHP, Assembly, LaTeX Technologies & Tools: React, Node.js, MySQL, Vite, Vue, Django, MongoDB, Express.js, Git/GitHub, XAMPP, Qt, Entra, Azure, PowerBI, JetBrain, VS Code, Eclipse, Android Studio, Figma, PowerShell, UNIX

#### Education

Queen's University, BASc in Computer Engineering

Sept 2022 - Apr 2026

- Coursework: Object Oriented Prog., Data Structures, Algorithms, Database Management Systems, Data Science
- Awards/Organizations: Q3C, QWeb, Queen's Engineering Society, Excellence Scholarship Award

# **Experience**

## Software Developer Intern, Metergy Solutions

Summer 2025

• Scheduled to complete a 12-week Software Developer internship at Metergy Solutions

## Software Developer, ThisIsElectric

Present

- Developing responsive website using MongoDB, Express, js, React and Node. js, enhancing online presence.
- Creating reusable React components, enhancing maintainability and reducing development overhead for future updates by 50%.
- Implementing Tailwind CSS for dynamic, reusable components, reducing front-end development time by 40%.
- Integrating **Power BI** with **MongoDB**, creating analytics dashboards that visualize customer inquiries, service conversions, and response times, enabling data-driven decisions and optimizing operations by 30%.

#### Undergraduate Teaching Assistant, Smith Engineering

Winter 2025

- Selected as 1 of 3 undergraduate TAs (7 total) to support 200+ students in **Object-Oriented Programming**.
- Facilitated labs on core OOP concepts, including inheritance and polymorphism, with 90%+ satisfaction rates.

#### Undergraduate Teaching Assistant, Smith Engineering

Fall 2024

- Guided 800+ engineering students in **Programming for Engineers I**, by teaching core **C programming** concepts such as control structures, iterative loops, debugging, and efficient coding practices.
- Led office hours and labs with a 95%+ success rate, ensuring timely completion and positive feedback.

## **Projects**

Movement Categorization Desktop App | Python, Pandas, NumPy, MatplotLib, Scikit-Learn, PyCharm

- Developed a desktop app to classify accelerometer data as 'walking' or 'jumping' using Logistic Regression, processing input CSV files and outputting labeled results with high accuracy.
- Achieved 90% accuracy in classifying walking vs. jumping by extracting features with **Pandas** and **NumPy** and training a Logistic Regression model with **Scikit-Learn**.
- Cut preprocessing time by 25% by organizing accelerometer data into HDF5 format for efficient analysis.
- Improved model interpretability using **Matplotlib** to visualize feature relationships and classification performance metrics.

#### **TradeLab Algorithmic App** | C++, Qt

- Led a performing team of 7 developers, earning a 95% excellence rating for impactful leadership and efficiency.
- Engineered a scalable trading education platform using C++ and the Qt framework, equipping beginners with interactive modules, quizzes, and simulations, and achieving a 91% user satisfaction rating
- Conducted rigorous testing and debugging to ensure a high-quality product, reducing post-deployment issues by 25% and increasing system reliability.