Matthew Anthony Serrano

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EDUCATION

Bachelor of Computer Science & Co-op **Sep 2024 – Present**
Ontario Tech University

- President's Honour List (GPA: 3.94/4.0).

Google Cybersecurity Certificate **May 2025 – Present**
Grow With Google

- Completed coursework in Foundations of Cybersecurity, Security Risk Management, Network Security, Linux, SQL, Python, AI, and Threat Analysis.

RELEVANT COURSES

- Programming Workshops I & II
- Intro to Entrepreneurship
- Management of the Enterprise
- Intro to Computer Science
- Computer Architecture
- Calculus I & II
- Physics I & II
- Data Structures &
- Algorithms
- Scientific Data Analysis

TECHNICAL SKILLS

Languages/Tools: Python, Linux, SQL, Java, C++, JavaScript, JSON, HTML, CSS, Microsoft 365, Slack, AI Tools
Development: Sails.js, React.js, MongoDB, Git, API Integration, BitBucket, Jira

PROJECT EXPERIENCE

Purchs Freight Management System (Sails.js, React.js, MongoDB)

- Built backend services in Sails.js supporting vendors, merchants, authentication, and product workflows.
- Integrated ClickShip API for rate retrieval, shipping labels, and POD data through secure token-based requests.
- Developed React.js UI components aligned with Figma-based workflow screens.

Baseball Pitch Sign Detection — TensorFlow, Python

- Developed a convolutional neural network to classify baseball pitch-calling hand signals using TensorFlow/Keras.
- Processed and augmented dataset of labeled images to improve model generalization and reduce overfitting.
- Achieved strong accuracy and exported the model for real-time prediction use cases.

Web Server (Python, TCP/HTTP)

- Developed a lightweight HTTP server handling raw TCP socket connections, building request parsing manually.
- Implemented routing logic and reinforced understanding of networking fundamentals.

WORK EXPERIENCE

Software Engineering Project Contributor **Oct 2025 – Present**
Purchs (Freight Rate & Label Management System)

- Developing backend logic in Sails.js to support freight operations and merchant workflows.
- Creating authenticated API endpoints integrated with ClickShip for rate, label, and POD retrieval.
- Implementing React.js UI components using Figma design references.

Barista **Jun 2024 – Present**
Chatime Oshawa Simcoe

- Delivered high-quality customer service in a fast-paced environment with strong teamwork and communication.

Instructor **Aug 2022**
Team DNA BJJ Whitby

- Taught Brazilian Jiu Jitsu and Judo to students across ages and skill levels.

EXTRACURRICULAR ACTIVITIES

Athletics

Judo (Black Belt); Canadian Judo Nationals 3x Vice Champion; Canadian Jiu Jitsu Nationals 5x Champion