


# Ryaan Farrukh

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## EDUCATION

### Seneca Polytechnic College

Computer Programming & Analysis Co-op

Jan 2024 - May 2026

Toronto, Ontario

## SKILLS

Languages	C/C++, Python, Go, JavaScript, HTML/CSS, SQL, Bash
Technologies	Git, Jira, Docker, AWS, MongoDB, Postgres
Frameworks	React.js, Express, Node.js, Next.js, Tailwind, Flask

## WORK EXPERIENCE

### Software Developer Intern

Unity Fitness

Jan - Apr 2025

Toronto, Ontario

- Built RESTful APIs with **Node.js** and **Express**, improving data retrieval speed by **50%** and backend efficiency.
- Automated backend workflows, reducing manual workload by **40 hours/month** and boosting team productivity.
- Optimized MongoDB queries, cutting response times by **60%** and ensuring **99.9%** data accuracy across **10,000+ records**.
- Created reusable **React** components, speeding up frontend development by **30%** and improving code maintainability.
- Debugged and tested systems with **Jest** and **Postman**, reducing error rates by **20%** and ensuring system stability.

### Electrical Apprentice

Rapid Electric


Jul 2022 - Dec 2023

Toronto, Ontario

- Assisted in the installation, repair, and maintenance of electrical systems, ensuring compliance with electrical safety codes.
- Conducted troubleshooting of circuits, wiring, and layouts, reducing downtime by **40%** and saving **20%** more material.
- Collaborated with team members to complete complex installations and house wiring, consistently meeting project deadlines.
- Supported senior electricians with wiring, conduit installation, and blueprint interpretation, increasing project efficiency by **15%**.

## PROJECTS

### MarketVision | Go, Node.js, Next.js, SQL

Feb 2024 

- Developed a **Go** backend with **Gin** to process image-based AI requests and return structured product descriptions.
- Built a **Next.js** frontend with **Tailwind CSS** for a seamless user experience and real-time AI-generated results.
- Implemented **user authentication** with **JWT** and **OAuth**, enabling secure login for **15+ users** via third-party providers.
- Designed a **PostgreSQL database** to store user prompts and generated descriptions for future access.
- Optimized API response handling and UI for improved performance, scalability and user retention.

### C++ Compiler | C++

Aug 2024 

- Developed a **compiler** to tokenize, parse, check syntax and semantics and translate code into **Assembly language**.
- Used **data structures** such as **trees, vectors, maps and structs** to maintain efficient handling and processing of code.
- Implemented key compiler components, such as **lexical analysis, parsing and code generation**.

### Hand Gesture Recognition System | Python, OpenCV, MediaPipe

Sept 2024 

- Designed a hand gesture recognition system using Python with OpenCV and MediaPipe to control computer actions via webcam.
- Implemented hand detection and gesture tracking algorithms to identify open-palm, first, and thumbs-up like gestures.
- Mapped gestures to system actions, allowing hands-free control of media playback, mouse movements, and other actions.
- Optimized for best performance in real-time, ensuring smooth and responsive gesture recognition.