Wilbert Budhy Wibowo

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EDUCATION

University of Toronto — **Toronto, Canada**
Bachelor of Applied Science and Engineering (B.A.Sc.) in Computer Engineering, PEY Co-op — Sep 2023 – Apr 2028

- GPA: 3.5/4.0
- International Scholar's Award
- Dean's Honors List

SKILLS

- **Programming**: Python, JavaScript, C++, Java, Go, C, TypeScript, HTML, CSS, Tailwind CSS
- **Frameworks/Tools**: PyTorch, React.js, Vue.js, Node.js, Express.js, Flask, React Native, Git
- **Databases**: MongoDB, PostgreSQL

WORK EXPERIENCE

AI Transformation Engineer (Software Engineer) — **Toronto, Canada**
Antler Canada — May 2025 – Present

- Developed and deployed a full-stack web app with user authentication for scouting that utilizes Google Gemini 2.0 Flash LLM API to analyze and create decisions with **React.js**, **JavaScript**, **Flask**, **Python**, and **MongoDB**
- Created a full-stack desktop application to record and transcribe meetings, store transcripts, and enable user queries for Google Gemini 2.0 Flash LLM API using **React.js**, **JavaScript**, **Express.js**, **Node.js**, and **MongoDB**
- Built a Chrome Extension that reads websites and enables users to interact with a Google Gemini 2.0 Flash-powered chatbot through a chat interface, providing responses based on the current page with **React.js** and **JavaScript**

Software Engineer — **Toronto, Canada**
Aston Dynamics — Jan 2025 – Mar 2025

- Developed a fleet management website with **React.js** and **TypeScript**
- Implemented brake controls for the mobile application using **React Native** and **TypeScript**
- Updated the UI for the brake controls page and Bluetooth devices page of the mobile application

PROJECTS

Real-Time Chatroom — Aug 2025

- Built a real-time chatroom web app using **Go**, **React.js**, and **JavaScript**, enabling multi-user interaction in the same chat

Kidney Stone Detection — Dec 2024

- Implemented the **YOLOv9** model in **PyTorch** to detect kidney stones in images of CT scans, achieving 75% accuracy

Street-view Segmentation — Nov 2024

- Utilized the **U-Net** architecture in **PyTorch** to apply image segmentation on images for self-driving cars, achieving a loss of 0.06

Image Classification — Sep 2024

- Implemented the **GoogleNet** architecture in **PyTorch** to classify images for facial recognition, achieving 94% accuracy

Football Match Predictor — Jun 2024

- Built a web scraper in **Python** to gather match data from previous seasons
- Trained a **Random Forest Classifier** model from **Scikit-learn** in **Python** to predict match outcomes

Reversi Game Bot — Mar 2024

- Developed a program to play reversi against a bot in **C**
- Implemented game logic for the bot to select moves that maximize point accumulation

Interactive Data Table — Apr 2023

- Utilized **Object-Oriented Programming** in **Java** to create an interactive table to display, search, calculate, sort, and modify data regarding companies' finances and stock prices

EXTRACURRICULARS

Firmware and Aerodynamics Team Member — **Toronto, Canada**
University of Toronto Formula Racing — Nov 2023 – Present

- Developed interactive charts displaying battery cell data using **React.js** and **TypeScript**
- Designed airfoils and endplates using **Solidworks CAD** and **Siemens Star-CCM**, improving performance by 30%
- Manufactured elements, contributing to a first-place at the Formula Hybrid+Electric competition in New Hampshire, USA

Robotics Club Member — **Hamilton, Canada**
Columbia International College — Aug 2022 – May 2023

- Designed and built the robot to compete in FIRST Robotics Competition and achieved 4 awards
- Participated as Safety Captain in the Worlds FIRST Championship in Houston, USA, resulting in zero safety incidents

Student Council Member — **Hamilton, Canada**
Columbia International College — Aug 2022 – Apr 2023

- Promoted events using various strategies, setting a record for the greatest number of signups in a single day
- Successfully coordinated and executed 4 major events in 1 year, resulting with high levels of student engagement