

Euisung Jung

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TECHNICAL SKILLS

Languages: Python, C/C++, HTML/CSS, Java Scripts, VHDL

Frameworks: Django, Flask, React, Node.js, Bootstrap, Tailwind, PostgreSQL, MySQL, MongoDB, SQLite

Developer Tools: Git, Github, VS Code, Altium(Kicad), IntelliJ, CLion, AWS, MySQL Workbench, Openai API

EXPERIENCE

Waterloo Electrium Mobility

January 2024 – Present

Electrical Engineering

Waterloo, ON

- Led the development of **efficient and functional PCBs** for electric bikes, integrating **superior Electronic Speed Controllers (ESC)** for enhanced power and motor control.
- **Key** in selecting **high-quality components** like batteries, torque sensors, motors, LCDs, and **Battery Management Systems (BMS)**, ensuring excellence and reliability.
- **Utilized effective communication and teamwork** to coordinate with various teams, ensuring **smooth project progression** and **successful outcomes**.

Waterloo Formula Electric

November 2023 – Present

Firmware Developer

Waterloo, ON

- **Developed and executed hardware-in-the-loop (HIL) tests using Python** to assess and validate electric car components, focusing on predicting expected behaviors. Employed tools like **STM32IDE, Virtual Box, and Vagrant** to establish a correlation between code and firmware input.
- **Conducted a thorough analysis of the Battery Management Unit (BMU)**, specifically focusing on its state of charge. This involved an **in-depth review of C firmware code and electrical schematics** to pinpoint key variables and functions.

Waiter at Restaurant

April 2022 – July 2023

Seoul Restaurant

Bedford, NS

- Cultivated versatile **communication skills** for effective interactions, showcasing the ability to convey ideas clearly and adapt communication style as needed.
- Refined and sharpened **critical thinking** skills, highlighting the ability to analyze and solve complex problems with clarity and precision.
- Enhanced **teamwork** and **collaboration** skills through effective interaction with colleagues, emphasizing the ability to work harmoniously in a team environment.

PROJECTS

Restaurant Website | *Python, CSS, HTML, Django, Java Scripts, AWS EC2*

- Developed a dynamic web application with the Django framework, integrating **JavaScript, HTML, and CSS** to create a seamless and interactive user experience.
- Demonstrated expertise in front-end technologies, including **JavaScript** for dynamic content and interactivity, and **CSS** for styling, enhancing the overall visual appeal of the web application.
- Implemented **responsive design principles** for optimal user experience across devices, ensuring accessibility and user-friendliness on both desktop and mobile platforms.
- Utilized **AWS EC2** to deploy the website, showcasing proficiency in cloud computing, and server management, with a focus on the Ubuntu operating system.

PDF Text Extraction and Display | *Python, Flask, OpenAI API, HTML, AWS*

- Utilized **Flask** for the backend, contributing to the development of a text extraction and display application in the Delta Hacks initiative.
- Integrated **AWS Texttract** to extract text from PDF documents.
- Processed the extracted text using the **OpenAI API** for refinement.
- Designed a seamless workflow from PDF input to refined text display in different HTML files.

EDUCATION

University of Waterloo

Bachelor of Engineering in Computer Engineering

Waterloo, ON

Sept. 2023 – May 2028