Euisung Jung

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https://fabian-portfolio.vercel.app

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 Textract** 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   Waterloo, ON
Bachelor of Engineering in Computer Engineering   *Sept. 2023 – May 2028*