Kushal Thapa

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Objective

Computer Engineering graduate with hands-on experience in firmware and software development. Currently enhancing my skills as a front-end developer, with all projects publicly available on my GitHub page. Actively seeking new opportunities to grow and make an impact.

Skills

Technologies: • Python • C • JavaScript • HTML/CSS • C++ • C# • Java • SQL • VHDL • Verilog

React Framework

Tools: • Git • Bash • MySQL

Soft Skills: • Detail oriented • Active communicator • Team player

Education

The University of Hong Kong

June 2023

Bachelor of Engineering (Major in Computer Engineering)

Pok Fu Lam, Hong Kong

GPA: $3.14 (\pi)$

Relevant Coursework:

- Algorithms Artificial Intelligence Cyber Security Database Management
- Software Engineering Operating Systems Applied Deep Learning

Projects

The Odin Project (Self-Directed Learning in Web Development)

2024 - Present

https://github.com/Zukurai-Kushal

• Participated in a full-stack web development curriculum covering HTML, CSS, JavaScript, Git, Node.js, databases, and various frameworks. Developed multiple responsive web applications, enhancing front-end and back-end skills (available on my GitHub page).

AIoT System for Smart Water Auditing

April 2023

https://github.com/Zukurai-Kushal/Water_Audit_Project_Full

- Developed and deployed an innovative IoT system that captures and uploads household water usage data to a cloud-based database via Wi-Fi.
- Conducted comprehensive data analysis, including cleaning and feature extraction, to train an SVM model that achieved a 73% classification accuracy for water flow events.

Work Experience

High Tech Technology LTD. (IC Development Company)

June 2021 - May 2022

Embedded Software Engineer (Intern)

Hong Kong Science Park, Hong Kong

- Developed firmware for an embedded system by designing its core kernel architecture using SDCC (Small Device C Compiler) on a 8051-microcontroller architecture, which links the digital and analog components and enables the IC to operate as intended.
- Designed and conducted testing phases for multiple projects by writing and simulating test cases for different scenarios, ensuring a thorough and robust product for the end user.
- Led RTL digital circuit design for an RGB LED IC driver using Verilog, successfully integrated into electric car ambient lighting systems.

Additional

Languages: Hobbies: • Fluent in English • Conversational Proficiency in Cantonese

• Game development • Rock Climbing • Photography