




ZEERAK ASIM

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EXPERIENCE

Queen's Hyperloop Design Team | Control Systems Engineer | Kingston, ON

October 2022 – May 2023

- Modified the predecessor backend code from **Python** to **Node.js**, reducing the data processing time by **45%**.
- Established a communication link between the hyperpod and **Arduino** for faster transfer of sensor data through the network using the **Express.js** server.
- Simplified the existing front-end **React** code and enhanced the **GUI** interface to improve user functionality.

Gunkii | Software Development Intern | Vancouver, BC (Remote)

July 2022 – September 2022

- Constructed a responsive UI shopping cart page using **HTML**, **Liquid**, and **CSS** to increase the amount of sales conversions and increase user flexibility when using the UI. This change increased the sales conversions by approximately **8%**.
- Researched, suggested, and executed methods to optimize the website's speed by compressing images, and videos, reducing/deleting obsolete backend code that had caused the website to slow down to increase the website speed performance by **15%**.
- Fixed bugs and maintained the website by solving video issues, scrolling animation bugs, and other issues that caused UI bugs on the website to prevent a bad user experience.
- Integrated AfterPay to enable the BNPL feature for the products on the desktop website and the AMP site. It was accomplished using **JavaScript**, **Shopify Themes**, and **ShopSheriff**.
- Contributed constructive ideas, helped and guided peers over merging issues on **GitHub**, website optimization articles, and constant updates/PowerPoints based on the changes done on the website during weekly sprints and meetings. Accomplished using **Google Docs**, **PowerPoint**, **Slack**, and **Trello**.

Google Student Development Club | Co-Technical Lead | Kingston, ON

August 2021 – September 2022

- Co-hosted seminars on a beginner's introduction to web development. Constructed a presentation and assisted the members in making a basic webpage using **HTML** and **CSS**.
- Co-hosted a live demo on creating a custom personal portfolio.
- Contributed to the **UI/UX** design of a custom website for the Queen's GDSC team.

PROJECTS

Simple RISC Processor

- This project aimed to design and program a Reduced Instruction Set Computing (RISC) style processor capable of performing simple operations and other computational instructions.
- Made as a team project for the university course ELEC374, using **Verilog HDL**, **Quartus II**, and **ModelSim Altera**.

Newegg.ca Product Scraper

- An app that allows users to enter the name of a product or GPU, the results are requested from Newegg.ca.
- Results display the product's name, price, and link.
- Accomplished using **Python** and the web-scraping library **BeautifulSoup**.

Personal Portfolio

- A custom personal portfolio that presents who I am and my skills and features some projects I have accomplished.
- Made using **HTML**, **CSS**, **Bootstrap**, and **JavaScript**.

Weather App

- An app that allows one to search a country or city and display its temperature and weather conditions.
- Made using **React.js**, **JavaScript**, **CSS**, and **OpenWeatherMap's Weather API**.

RecipeHunt App

- An app that allows users to find recipes based on the ingredients they have at home. The application will provide a list of recipes that use those ingredients.
- A hackathon project for Hack the 6ix.
- Programmed the front-end and the ingredient selection logic using **HTML**, **EJS**, **CSS**, **Node.js**, **Bootstrap**, and **JavaScript**.

TECHNICAL SKILLS

- **HTML**, **Liquid** • **CSS**, **SCSS** • **JavaScript** • **Linux**, **Shell Scripting** • **VHDL**, **Verilog** • **Knime** • **C**, **C++** • **EJS.js**
- **Java OOP** • **Python** • **BeautifulSoup** • **React.js** • **Express.js** • **Bootstrap** • **SQL** • **Node.js** • **Arduino**
- **MS Office**, **Word**, **Powerpoint**, **Excel**

EDUCATION

Bachelor of Applied Science in Computer Engineering

Sept 2020 – April 2024

Queen's University