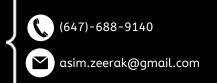
Zeerak Asim









Technical Skills



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

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 for the custom website, which will represent 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**.





Queen's University

Bachelor of Applied Science in Computer Engineering

Sept 2020 - April 2024

- Object Orientated Programming (ELEC 279)
- Introduction to Programming (MNTC 313)
- Fundamentals of Software Development (CMPE 320)
- Data Analytics (CMPE 251)
- Operating Systems (ELEC 377)
- Database Management Systems (CMPE 332)
- Digital Systems Engineering (ELEC 374)
- Computer Networks (ELEC 373)
- Introduction to Data Science (ELEC 390)

Pine Ridge Secondary School

High School Diploma

Sept 2016 - June 2020

- Ontario Scholar Award (2020), Grade 12.
- Ronny Bathia Memorial Award (2020), Grade 12.