# Zeerak Asim

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## **EXPERIENCE**

### ENGLINKS PERSONAL TUTOR

EngLinks

- Conducted tutoring in the courses Computer Architecture and Microprocessor Interfacing and Embedded Systems.
- . Provided clear explanations and notes to help students grasp complex topics.

### CONTROL SYSTEMS MEMBER

QHDT

- Optimized backend, transitioning from Python to Node.js, reducing data processing time by 45%. •
- Streamlined the hyperpod Arduino data transfer using JavaScript and Express.js for enhanced reliability.
- Redesigned the preceding front-end code using **React** and **CSS**, which enhanced the **GUI** interface for faster loading time by 16% and increased overall code efficiency.

#### SOFTWARE DEVELOPMENT INTERN

Gunkii

- Developed a responsive UI shopping cart and integrated AfterPay, utilizing HTML, Liquid, CSS, and JavaScript, which increased sales conversions by 8% and successful checkouts by 5%.
- Implemented website optimization through media compression and backend code refinement and resolved various UI bugs, resulting in a 15% speed performance increase and a 10% rise in user numbers.
- Provided peer guidance on GitHub issues and disseminated continuous website updates and optimization strategies through various platforms like Google Docs and Slack during weekly scrum meetings.

## **CO-TECHNICAL LEAD**

GSDC

- Co-instructed seminars on a beginner's introduction to web development. Constructed a presentation and assisted the members by guiding them in constructing a basic web page using HTML and CSS.
- Led HTML/CSS workshop for team portfolio creation, boosting project interest and productivity.
- Invented preliminary UI/UX designs for a custom website for the Queen's GDSC team. The idea was presented to the core team and was liked. This idea was passed down to the successor core team.

#### **PROJECTS**

#### VIRTUOPS VM MANAGEMENT APP

- A role-based VM management application for a capstone project that is intended for an operating systems course. Designed to facilitate streamlined administration and user interactions with virtual machines. Implemented using Kerberos, libvirt, MySQL, Django, Nginx, Python3, Linux, and LightDM.
- Enables differentiated privileges for admins and students, allowing operations like VM creation, snapshot management, and . basic permissions, with enhanced administrative controls for firewall rule configurations.

# SIMPLE RISC PROCESSOR

- Programmed a Reduced Instruction Set Computing (RISC) style processor using Verilog HDL, Quartus II, and ModelSim Altera. Capable of performing simple operations and other computational instructions.
- Attained more knowledge to gain a greater understanding of computing processors. ٠

#### WEATHER APP

- An app that allows one to search a country or city and display its temperature and weather conditions using React.js, • JavaScript, CSS, and OpenWeatherMap's Weather API.
- Easy-to-use interface with quick, accessible, and reliable information for the user.

#### **EDUCATION**

QUEEN'S UNIVERSITY Bachelor of Applied Science (B.ASc) in Computer Engineering

# **ADDITIONAL SKILLS**

TECHNICAL SKILLS: HTML/CSS, JavaScript, Linux, VHDL, Verilog, Knime, C++, C, Java, Python, Ruby, Rust, EJS.js, React.js, Vue.js, Node.js, Express.js, UX Design, BeautifulSoup, Bootstrap, Arduino, Heroku, PHP, Apache, MongoDB, MySQL, PostgreSQL, Kerberos, libvirt, Django, Nginx, LightDM, Pytest, Kubernetes, PyTorch, TensorFlow

PROGRAMS: Microsoft Office Suite, Figma, Google Analytics, Azure, AWS, Google Cloud, Docker, JIRA (SDLC), Asana, Trello, Lucidchart, Slack, Microsoft Teams, Visual Studio

Oct 2022 - May 2023 Kingston, ON

Sept 2023 - May 2024

Kingston, ON

Aug 2021 - Sep 2022

Kingston, ON

Jan 2023 - April 2023

Sept 2023 - April 2024

May 2022 - May 2023

Sept 2020 - May 2024

Kingston, ON

July 2022 - Sep 2022

Vancouver, BC