Zeerak Asim

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EDUCATION

QUEEN'S UNIVERSITY *Kingston, ON*

Bachelor of Applied Science in Computer Engineering
- **Relevant Coursework**: Data Structures, Algorithms, Object Oriented Programming, Software Engineering, Deep Learning

SKILLS

PROGRAMMING: C++, C, Python, JavaScript, TypeScript, PHP, Verilog, VHDL

TECHNOLOGIES: Linux, AWS, Azure, MySQL, MongoDB, PostgreSQL, Selenium, Pytest, TensorFlow, Jira, Confluence, Git/GitHub, Microsoft Word, Excel, Access

EXPERIENCE

COMPUTER SCIENCE INSTRUCTOR *Nov 2025 - Jan 2026*

AHC Academy, Abu Huraira Center *North York, ON*
- **Led** CS lectures for **120+** students, teaching Python programming fundamentals through structured lessons and guided projects
- **Improved** student outcomes by introducing problem-solving frameworks and code templates, resulting in **20–30%** average improvement in assessment scores
- Mentored students through debugging and program design, reinforcing practices like code readability, logical flow and testing

SOFTWARE ENGINEERING FELLOW *July 2024 - Sept 2024*

Headstarter *Remote, NY, US*
- Successfully developed engineering projects using innovative technologies (Vercel and **AWS)**, applied Large Language Model (**LLM)** methods such as **RAG**, and structured methodologies (**CRUD**, **MVC**) to ensure reliable system performance
- **Led** and collaborated with a team of 3 in development, **resolved** merge conflicts, applied Agile methodology to deliver safe, reliable, efficient solutions, and delivered project demos that were submitted and viewed **1300+** times
- Built **4+** applications integrating AI using **Next.js**, TypeScript, JavaScript, **Python**, Git, and APIs

COMPUTER ARCHITECTURE & EMBEDDED SYSTEMS TUTOR *Sept 2023 - May 2024*

EngLinks *Kingston, ON*
- Mentored **10+** students in Computer Architecture & Embedded Systems, ensuring communication of technical concepts in safety-critical engineering contexts
- Provided clear explanations and concise notes, resulting in an average student improvement of **15-20%** in course grades
- Supported **90%** of students to successfully pass their courses, with several achieving grades above **80%**

SOFTWARE ENGINEERING INTERN *Oct 2022 - May 2023*

QHDT *Kingston, ON*
- Optimized back-end performance through system redesign using **Python**, increasing efficiency, reliability of processes, and reduction in processing time by **45%**
- Streamlined the hyperpod **Arduino** data transfer using **JavaScript** and **Express.js** for enhanced reliability, resulting in a **25%** improvement in system response time
- Redesigned and enhanced the user interface using **React** resulting in faster loading time by **16%** and overall code efficiency

SOFTWARE ENGINEERING INTERN *July 2022 - Sept 2022*

Gunkii *Remote, BC, CA*
- Utilized UI/UX practices to develop a front-end UI using web development and **JavaScript,** increasing sales conversions by **8%** and successful checkouts by **5%**
- Applied problem-solving and optimization through back-end refinement, improving speed performance by **15%** and increasing reliability in users by **10%**
- Collaborated in a **team environment** through weekly scrum meetings based on GitHub issues, contributing on continuous website updates, and planning for **optimization** strategies

PROJECTS

FLASHCARD-GEN (STUDY CARDS GENERATOR) | [WEBSITE](#) | [GITHUB REPO](#) | 700+ VIEWS
- Designed a flashcard app using **Next.js** and **JavaScript**, with the back-end as **Node.js** and integrated **LLM** with the **Gemini API**

AI OLYMPIC BOT (CHATBOT FOR OLYMPICS) | [WEBSITE](#) | [GITHUB REPO](#) | 420+ VIEWS
- Developed an AI bot that answers Olympic FAQS using **Next.js**, **Tailwind CSS**, **JavaScript**, and integrated **LLM** using **Gemini API**

CERTIFICATIONS

ORACLE CLOUD INFRASTRUCTURE AI FOUNDATIONS ASSOCIATE (2025) *Completed*