Zeerak Asim

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EDUCATION

QUEEN'S UNIVERSITY *Kingston, ON*

Bachelor of Applied Science in Computer Engineering *Graduated May 2024*
- **Relevant Coursework**: Data Structures, Algorithms, Object Oriented Programming, Software Engineering, Deep Learning

SKILLS

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

WEB/FRAMEWORKS: React.js, Next.js, Vue.js, Bootstrap, Django, FastAPI, Flask, Qt

TOOLS/TECHNOLOGIES: AWS, Azure, MySQL, Firebase, MongoDB, PostgreSQL, DB2, Linux, Pytest, TensorFlow, Jira, Confluence

EXPERIENCE

SOFTWARE ENGINEERING FELLOW *July 2024 - Sept 2024*

Headstarter *Remote, NY, US*
- Successfully developed projects for deployment using Vercel, **AWS**, applied **LLM** methods such as **RAG**, and utilized **CRUD** and **MVC design patterns**
- **Led** a team of 3 in development, **resolved** merge conflicts, incorporated Agile methodology, maintained **CI/CD** pipelines, implemented **microservice patterns**, and managed project demos that were submitted and viewed **1000+** times
- Built **4+** apps in AI using **Next.js**, TypeScript, JavaScript, **Python**, Git, **Pinecone,** and APIs such as **OpenAI API**, **Gemini API**

SOFTWARE ENGINEERING INTERN *Oct 2022 - May 2023*

QHDT *Kingston, ON*
- Utilized **Node.js** replacing **Python** code to **optimize** the back-end, resulting in a 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 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 ENGINEERING INTERN *July 2022 - Sept 2022*

Gunkii *Remote, BC, CA*
- Developed a responsive UI shopping cart and integrated AfterPay, utilized HTML, Liquid, CSS, and **JavaScript** to increase sales conversions by **8%** and successful checkouts by **5%**
- Implemented website **optimization** through media compression, back-end code refinement, and resolved various UI bugs, resulting in a **15%** speed performance increase and a **10%** rise in the number of users
- Provided peer guidance on GitHub issues and contributed continuous website updates and **optimization** strategies through various platforms like Google Docs and Slack during weekly scrum meetings

PROJECTS

FLASHCARD-GEN | [WEBSITE](#) | [GITHUB REPO](#) | 550+ VIEWS
- Designed a flashcard app using **Next.js**, Tailwind CSS, Material UI, and **JavaScript**, with the back-end implemented using **Node.js**, and **LLM** integration through the **Gemini API**
- The app allows users to enter a topic they would like to study, generating 10 flashcards based on that topic

AI OLYMPIC BOT | [WEBSITE](#) | [GITHUB REPO](#) | 320+ VIEWS
- Developed an AI Olympic bot using **Next.js**, Material UI, **JavaScript**, and integrated **LLM** using the **Gemini API**
- Allows users to ask questions or fact-check information with the AI Olympic Bot

PANTRY MANAGEMENT APP | [WEBSITE](#) | [GITHUB REPO](#)
- Developed a pantry management app using **Next.js**, Material UI, **JavaScript**, with **Firebase** integrated as the back-end
- The app allows users to search for recipes that can be cooked with the available ingredients using the **OpenAI API**

WPROMPT | [WEBSITE](#) | [GITHUB REPO](#)
- Engineered an AI prompt app using **Next.js**, Tailwind CSS, **TypeScript**, and utilized **Convex** and **LLM**
- Helps users enter a weak prompt and improve it by adding crucial details for better LLM use

SWEPREP DEMO | [WEBSITE](#)
- Built and deployed a modern, reusable business website using **Next.js**, Tailwind CSS, **TypeScript**, and Resend API
- Demonstrates a safe, fast, and functional UX tailored for small businesses that require an online presence

CERTIFICATIONS

AWS CERTIFIED AI PRACTITIONER *In Progress*