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: *Pro:* C++, C, Java *Intermediate:* Python, JavaScript   *Beginner:* TypeScript, PHP, Verilog, VHDL
WEB/FRAMEWORKS: React.js, Next.js, Vue.js, Bootstrap, Django, Flask, Qt
TOOLS/TECHNOLOGIES: AWS, Azure, MySQL, Firebase, MongoDB, PostgreSQL, Linux, Pytest, TensorFlow, Git, 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 viewed **150+** 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 for 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 and 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

NeedCar   *Aug 2024 - Present*
- Designed a budget car app using **Next.js**, Tailwind CSS, and **TypeScript**. The back-end was implemented using **Node.js**, JavaScript, FastAPI, and **Python**, integrated **LLMs** using **RAG**, **Pinecone,** and **OpenAI API**.
- The app allows users to search for cars based on budget, location, and favorite car model.

HIRING HACKATHON (RILLA) - CommScript | Github Repo   *Aug 2024 - Present*
- Engineered a sales transcript app using **Next.js**, Tailwind CSS, Aceternity UI, **TypeScript**. Programmed the back-end using **Node.js**, JavaScript, **Python**, pdf2json, and integrated **Pinecone**, **OpenAI API** for LLM configuration.
- The app allows managers to upload sales transcripts and provide summarized feedback to sales representatives using AI.

PANTRY MANAGEMENT APP | Github Repo   *Aug 2024 - Present*
- Developed a pantry management app using **Next.js**, Material UI, **JavaScript**, and integrated **Firebase** as the back-end.
- The app allows users to search for recipes that can be cooked with the available ingredients using the **OpenAI API**.

VIRTUOPS | Website   *Sept 2023 - Apr 2024*
- Implemented using **Kerberos**, **libvirt**, **MySQL**, **Django**, **Nginx**, **Python3**, **Linux**, and **LightDM**.
- A role-based VM management app for a capstone project that is intended for an operating systems course. Designed to facilitate streamlined administration and user interactions with virtual machines.