Zeerak Asim

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EXPERIENCE

SOFTWARE ENGINEERING FELLOW

July 2024 - Present Remote, NY, US

Headstarter

- Built 4 Al applications using Next.js, Tailwind CSS, Material UI, JavaScript, TypeScript, Python, and APIs such as Pinecone,
 OpenAI, Gemini API, StripeAPI, Clerk, and Firebase.
- Successfully developed projects for deployment using Vercel, AWS, applied LLM methods such as RAG and utilized CRUD and MVC design patterns.
- Coached by engineers from Amazon, Bloomberg, and Capital One on Agile, CI/CD, Git and microservice patterns.

CONTROL SYSTEMS MEMBER

Oct 2022 - May 2023

Kingston, ON

QHDT

• Optimized back-end, 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

July 2022 - Sep 2022

Remote. BC. CA

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 back-end 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.

PROJECTS

COMMSCRIPTAI Aug 2024 - Present

- Engineered an app for sales managers to upload sales transcripts and provide feedback to sales representatives.
- Users can upload a PDF transcript, add and manage comments, attach files to comments, and generate a summary of the transcript and associated comments using AI.
- The front-end is built using Next.js, Tailwind CSS, Aceternity UI, TypeScript. The back-end is implemented using Node.js, TypeScript, JavaScript, Python, pdf2json, with LLM integration using Pinecone and OpenAI.

PANTRY MANAGEMENT APP Aug 2024 - Present

- Constructed a pantry management app using **Next.js**, **Material UI**, and **JavaScript** and applied **CRUD** with a back-end database using **Firebase**. Integrated **OpenAI API** to search for recipes that can be cooked with the available ingredients.
- Implemented a search bar to search for ingredients in the pantry conveniently.

VIRTUOPS

Sept 2023 - April 2024

- 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

Jan 2023 - April 20

- 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.

EDUCATION

QUEEN'S UNIVERSITY

Kingston, ON

Bachelor of Applied Science (B.ASc) in Computer Engineering

Sept 2020 - May 2024

ADDITIONAL SKILLS

TECHNICAL SKILLS: HTML, CSS, JavaScript, TypeScript, Linux, VHDL, Verilog, Knime, C++, C, Java, Python, Ruby, Rust, EJS.js, React.js, Vue.js, Next.js, Node.js, Express.js, BeautifulSoup, Bootstrap, Tailwind CSS, Material UI, Aceternity UI, Arduino, PHP, Apache, MongoDB, MySQL, PostgreSQL, Firebase, Kerberos, libvirt, Django, Nginx, LightDM, Pytest, Kubernetes, PyTorch, TensorFlow, Clerk, OpenAl API, Gemini API, StripeAPI, CI/CD, CRUD, LLM, Git

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