

Mahad Aziz

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TECHNICAL SKILLS:

- **Languages:** Python, Java, JavaScript, TypeScript, Go, C#, C++, Haskell, HTML, CSS, SQL
- **Frameworks/Libraries:** React, Next.js, Node.js, Flask, Django, Numpy, Matplotlib, D3.js, Express.js, GraphQL
- **Tools/Platforms:** Git, Docker, Jenkins, GitHub Actions, Azure, Oracle Cloud, MongoDB, MySQL, IBM Db2, Linux, JUnit, Jest, Kubernetes, Terraform
- **Technologies:** AI, LLM

PROJECTS/SOFTWARE SKILLS:

Journey AI [Demo](#) [Link](#)

- Designed and developed a full-stack data-driven **AI** writing assistant using **Next.js** and **Flask**, enhancing functionality and usability. Simplified complex AI tasks, leading to a more intuitive user experience based on personal testing and feedback
- Leveraged the **Falcon-7b Language Model** from Hugging Face via an API to provide context-based suggestions, improving suggestion relevance and accuracy based on personal testing
- Created interactive visualizations using **D3.js** to represent user activity and performance metrics, enabling data-driven insights and enhancing user engagement
- Utilized **Git** for version control, and troubleshooting merge conflicts and code errors, which resulted in a smoother and more efficient development process
- Implemented **NextAuth.js** for secure authentication, enhancing overall security and reducing potential vulnerabilities in the application

2048 Game [Link](#)

- Replicated the 2048 mobile game in **Java** by following the software development lifecycle and by using a model view controller design pattern
- Completed automated and manual black box, functional, and end-end testing on each module

WORK EXPERIENCE:

Junior Design Engineer, Evertz Microsystems, Burlington

May 2024 - Present

- Independently managed the development and maintenance of a project running as an Adobe extension, delivering critical features and enhancements to meet customer requirements. Acted as the primary point of contact for clients, addressing their technical issues, gathering feedback, and providing timely solutions to ensure customer satisfaction and project success
- Developed and deployed scalable features for an Adobe extension using **React**, while leveraging **Docker** for containerized environments and **Jenkins** for CI/CD pipelines. Utilized **Azure** for cloud deployment and resource management, ensuring high availability and performance
- Authored comprehensive technical documentation, including setup guides and troubleshooting manuals, to facilitate onboarding and maintenance

Student Design Engineer - Software, Evertz Microsystems, Burlington

May 2022 - April 2024

- Designed and implemented a Drag-and-Drop File Upload feature in **Python** and **React**, including the development of **RESTful API** endpoints to handle file uploads and server-side validation. Integrated API calls on the frontend to ensure seamless communication with the backend, improving user efficiency by 20%, while adhering to coding standards and contributing to development guidelines
- Resolved over 100 feature, improvement, and bug tickets across **React**, **TypeScript**, **JavaScript**, and **Flask**, improving application stability and reducing user-reported issues by 30%
- Mentored 2 new interns through code reviews, improving their coding practices and contributing to a 15% reduction in project turnaround time by enhancing code quality and maintainability

EDUCATION:

Honors Bachelor of Applied Science, Computer Science

McMaster University, Hamilton, ON

- Maintained a cumulative GPA of 3.9