

# 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, AWS, Azure, Oracle Cloud, PostgreSQL, 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, Flask, and MongoDB**, optimizing functionality and user experience through iterative testing and feedback
- Integrated the **Falcon-7b Language Model** from Hugging Face via an API to generate precise, context-aware writing suggestions, optimizing response quality through model fine-tuning and systematic testing
- Developed dynamic visualizations using **D3.js** to transform user-uploaded data into interactive graphs and insights, enhancing data exploration and user engagement
- Managed version control using **Git**, resolving merge conflicts and debugging code errors to streamline development and collaboration
- Implemented **NextAuth.js** for secure authentication, strengthening application security and mitigating potential vulnerabilities

### 2048 Game [Link](#)

- Developed a fully functional replica of the 2048 mobile game in **Java**, applying the software development lifecycle and **Model-View-Controller** design pattern for modular and maintainable code
- Performed automated and manual black-box, functional, and end-to-end testing on each module using **JUnit**, ensuring stability and correctness

## WORK EXPERIENCE:

### **Junior Design Engineer, Evertz Microsystems**

**May 2024 - Present**

- Independently managed the development and maintenance of an Adobe Premiere extension, delivering critical features that improved workflow efficiency by 25% to meet customer requirements. Served as the primary client contact, resolving 90% of technical issues, gathering feedback, and ensuring 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
- Automated cloud infrastructure provisioning by using **Terraform** to deploy and manage virtual machines (VMs) on Azure, reducing manual configuration effort by 50%, and ensuring consistent deployment across environments
- Configured **Kubernetes** clusters and implemented **GitHub Actions** for CI/CD pipelines during a **GitHub** repository migration, automating deployments and improving system reliability

### **Student Design Engineer - Software, Evertz Microsystems**

**May 2022 - April 2024**

- Developed and resolved **150+** feature requests, improvements, and bug reports across multiple repositories using **React, TypeScript, JavaScript, and Flask**, improving application stability and reducing user-reported issues by 30%. Key contributions include building a Drag-and-Drop File Upload feature by creating **RESTful API** endpoints for secure file handling and integrating frontend API calls to streamline backend communication, increasing user efficiency by 20%
- Authored technical documentation to onboard two interns and mentored them through code reviews, improving their coding skills and reducing project turnaround time by 15% through better code quality and maintainability

## EDUCATION:

### **Honors Bachelor of Applied Science, Computer Science**

*McMaster University, Hamilton, ON*

- Maintained a cumulative GPA of 3.9