# Ali Asjad

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## TECHNICAL SKILLS

**Languages**: Java, Python, C, SQL (Postgres/MySQL), NoSQL (DynamoDB) JavaScript, HTML/CSS, R/RStudio
**Frameworks**: Vue, Node.js, Flask, Quarkus, React/Next.js
**Developer Tools**: Git, AWS, VS Code, Postman, Insomnia, Docker, Firebase, REST APIs
**Libraries**: NumPy, dplyr, ggplot2, OpenCV, JFlex, CUP

## EDUCATION

**University Of Guelph**                                                                                       Guelph, ON
*Bachelor of Computing in Computer Science, Minor in Business Economics*            *Sep. 2019 – May 2024*
- Relevant Coursework*:* CIS*2430 Object Oriented Programming, CIS*3110 Operating Systems, CIS*3760 Software Engineering, CIS*4020 Data Science, CIS*3700 Intro to AI, CIS*4010 Cloud Computing

## EXPERIENCE

**Programming Assistant**                                                                             May 2022 – Present
*University of Guelph*                                                                                          *Guelph, ON*
- Developed REST APIs using Postman and PostgreSQL with Python, improving data retrieval times by 30%
- Created a full-stack web application using Flask, Vue, PostgreSQL, and Python, **resulting in 25% increase** in user engagement
- Implemented a file validation function in the backend using Flask and JavaScript, reducing file processing **errors by 40%**

**Software Intern**                                                                                        May 2021 – Aug 2021
*TereSol Pvt. Ltd.*
- Created micro-services for front-end, back-end and middleware in Quarkus using Java, Vue.js and MySQL, which improved application **scalability by 50%**
- Developed REST APIs using Insomnia and MySQL with Java enhancing database query **performance by 35%**
- Conducted stress/load tests on APIs using JMeter and k6, leading to a 20% increase in system reliability under high load.
- Explored ELK stack to maintain system logs, improving log tracking **efficiency by 45%**

## PROJECTS

**AI Flash Card Generator** / *Next.js, Gemini, Stripe*                                        Sept. 2024
- Developed a web application using Next.js and React that generates flashcards from user prompts with the help of the Gemini API
- Optimized the application's performance to generate flashcards in real-time, improving user **efficiency by 30%**
- Leveraged Google's AI to extract relevant information from prompts, enhancing learning and concept retention for users

**OpenAI Chatbot** / *React, OpenAI API, Tailwind*                                           Aug. 2024
- Developed an AI-powered chatbot using OpenAI's API and React, capable of answering user queries based on input
- Integrated the OpenAI API to fetch responses, improving response accuracy and **relevance by 90%**
- Enhanced the user interface with Tailwind for a seamless conversational experience
- Implemented JavaScript to handle user input and API request/response, ensuring seamless user experience
- Implemented efficient state management in React to handle user interactions and dynamic responses, reducing response **times by 20%**

**Course Scheduler** / *Python, Flask, React, PostgreSQL, AWS*                     Sept. 2022 – Dec. 2022
- Collaborated with a team to develop a full-stack web application, using Flask for the REST API and React for the front end, hosted on AWS
- Implemented backend functionality to parse data from HTML files using Python, exporting data to CSV files and hosting it on DynamoDB
- Developed REST APIs with Python to connect the backend to the front end, enhancing data interaction **efficiency by 25%**
- Set up CI/CD pipelines using GitLab, automating testing and deployment, reducing manual **errors by 40%**