Areez Visram
SOFTWARE ENGINEER

📱 647-546-1883 | ✉ areez.visram@gmail.com
🏠 www.areezvisram.com | 💻 www.github.com/areezvisram
💼 www.linkedin.com/in/areezvisram/

Key Skills and Technologies

Python, JavaScript, Java, Ruby on Rails, Lua, Go, C, C++, OpenGL, HTML/CSS, MySQL, GraphQL, Redis, Postgres, NoSQL, NodeJS, ExpressJS, React, React Native, NASM, AWS, Azure, GCP, Docker, Kubernetes, Git

Education

McMaster University   *Hamilton ON, Canada*
BACHELOR OF ENGINEERING (B.E.) IN SOFTWARE ENGINEERING CO-OP   *Sep. 2019 - Present*
- Software Engineering student, with a Minor in Innovation & Entrepreneurship
- Expected Graduation Date of April 2024
- Cumulative GPA of 3.87/4.0
- Dean's Honour List Recipient in all academic semesters

Work Experience

Shopify   *Toronto, ON*
SOFTWARE DEVELOPMENT INTERN   *May 2023 - August 2023*
- Implemented new functionality and optimizations on high-traffic Ruby on Rails Shopify Core application
- Played a key role as a developer on the Inventory team, contributing to features and code optimizations
- Removed deprecated beta flags from the backend, streamlining the platform and eliminating code smells
- Reduced complexity and potential for bugs by following stack trace and tracking Splunk logs to remove a complex legacy method
- Reworked validation in GraphQL mutations, enabling users to perform more flexible and accurate updates
- Showcased proficiency in writing unit and integration tests using Minitest to uphold high code quality
- Maintained public-facing documentation, incorporating new error codes and messages, refining mutation descriptions, and providing accurate examples
- Actively participated in sprint planning meetings and played an integral part in backend code discussions, contributing to the seamless implementation of project objectives
- Conducted code reviews in GitHub, helping foster a culture of continuous improvement within the team

Shopify   *Toronto, ON*
BACKEND DEVELOPER INTERN   *May 2022 - August 2022*
- Contributed to development of a Ruby on Rails monolithic application serving 10+ million requests per day
- Played a key role as a developer on the Inventory team, contributing to the implementation and design of an inventory oversell protection solution that utilized MySQL instead of Redis
- Developed and optimized SQL queries, mitigating deadlocks and timeouts to enhance system performance
- Utilized Lua scripting for comprehensive load testing, evaluating the performance and reliability of Rails code and SQL queries
- Enhanced usability on the internal platform by implementing streamlined workflows and productivity-focused improvements in Ruby on Rails
- Demonstrated expertise in writing unit and integration tests using Minitest to maintain code quality
- Maintained a document capturing the results of load tests, incorporating data from Datadog and Splunk, and utilized document to generate a summary outlining outcomes and recommendations for leadership
- Actively participated in architecture design meetings, contributing to the decision-making process and ensuring alignment with project goals
- Conducted code reviews, ensuring high-quality code, fostering a culture of excellence within the team

Signiant   *Ottawa, ON*
CO-OP SOFTWARE DEVELOPER - FULL STACK DEVELOPER   *January 2021 - August 2021*
- Implemented full-stack features on a cloud-native SaaS platform designed to facilitate secure file transfer
- Leveraged microservice architecture principles to develop and deploy code within a scalable AWS cloud environment incorporating S3, DynamoDB, Step, Lambda, EC2, ECS, ElasticSearch, Athena, and CloudWatch
- Deployed code to Docker containers and Kubernetes clusters to ensure efficient execution of applications
- Used React and Redux to create seamless and intuitive frontend features

- Developed robust backend features with NodeJS and ExpressJS, creating REST endpoints for retrieving data from NoSQL databases such as DynamoDB and Elasticsearch
- Ensured code quality through unit and component testing, maintaining a minimum code coverage of 98%
- Addressed technical debt, optimized project generation and eliminated warnings and errors to improve overall platform stability
- Reviewed team members code in BitBucket ensuring seamless microservice integration and code quality
- Operated within an agile framework, delivering work within two-week sprints and presenting notable accomplishments and progress during iteration demos

SalonEverywhere - a Division of Perma Brands Inc. *Toronto, ON*
DEVELOPER INTERN *May 2020 - Sep. 2020*
- Contributed significantly to the company's early-stage development, facilitating its successful transition from a startup to an initial launch
- Played a key role in the development of a web application, using Liquid, HTML, and CSS to design a user-friendly frontend interface, and using platformOS and GraphQL to implement a scalable backend system
- Developed a JavaScript-based chrome extension to facilitate seamless cross-platform content sharing of Instagram and Facebook posts to curated portfolios and inspiration boards
- Utilized Python web scraping techniques to construct a comprehensive database comprising 200,000 beauty salons and organizations
- Built an AI pipeline in Python, enabling categorization of Instagram images based on their beauty attributes
- Utilized REST and GraphQL API calls to establish seamless communication of the product with other platforms, including Instagram, Facebook, Pinterest, Shopify, and Thinkific

Projects

Personal Website ○ ⌘
REACT, NODEJS, EXPRESSJS, JAVASCRIPT, CSS
- Developed a secure and responsive portfolio website, showcasing my experience, skills, and projects
- Demonstrated expertise in JWT authentication, frontend development, backend robustness and large-scale architecture design

Photo Sketcher ○ ⌘
REACT, JAVASCRIPT, HTML/CSS, PYTHON, FLASK, DOCKER, GCP CLOUD RUN
- Developed a cloud-based Photo Sketcher web application, enabling seamless image uploads and real-time generation of two hand-drawn pencil sketches using the Canny Edge Detection Algorithm
- Deployed as serverless Docker container on GCP Cloud Run, demonstrating proficiency in Python scripting, GCP cloud and Docker integration, and React frontend design

3D CAD System ○
C++, OPENGL, GLUT, MAKEFILE
- Developed a CAD system using C++ and GLUT, enabling shape addition, movement, rotation and deletion, material selection, custom shapes, and scene saving/loading
- Implemented advanced features, including light source ray picking, GUI-based file management, and textured object rendering
- Demonstrated expertise in C++ development, OpenGL/GLUT integration, and graphics development

MyCourses ○
JAVA, JAVAFX
- Developed MyCourses, a Java app with a secure login system and organized display of university program courses, including pre-requisites, electives, and section details
- Facilitated ease of course research and planning for users, providing essential course information such as name, code, description, and section details with timings and professors
- Demonstrated expertise in Java development, showcasing strong skills in object-oriented design, database management, and user-friendly interfaces

Multi Threaded Concurrent Programs ○
GO, JAVA, PYTHON, C, JUPYTER NOTEBOOK
- Developed a diverse repository of multi-threaded concurrent programs in Java, Go, C, and Python
- Demonstrated proficiency in concurrent programming techniques, including threads, semaphores, and monitors and writing multi-threaded programs
- Implemented as Jupyter Notebooks, enabling seamless execution and detailed explanations of program