Areez Visram
SOFTWARE ENGINEER

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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*
- Contributed to Shopify's Ruby on Rails core application by developing features and resolving issues in the Inventory component, enhancing the inventory management and tracking system for merchants
- 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 and updated public-facing API documentation, enabling users to perform more flexible and accurate updates
- Identified erroneous data using MySQL and PostgreSQL queries, then developed maintenance tasks to rectify data, resulting in improved team efficiency
- Triaged production issues as on-call developer, employing swift solutions to maintain system functionality
- Showcased proficiency in writing unit and integration tests using Minitest to uphold high code quality
- 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*
- Architected and developed an inventory oversell protection solution utilizing MySQL instead of Redis, enabling merchants to more effectively prevent stock depletion at specific shop locations
- 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 defined objectives
- Performed GitHub code reviews, helping maintain high code quality standards 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