Samuel Habib

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SKILLS

Languages: Python, Ruby, C, C++, C#, Java, JavaScript, Typescript, Perl, PHP, SQL, HTML/CSS, XML, Groovy
Frameworks/Tools: AWS, Nodejs, Reactjs, Flask, Unity, Docker, MATLAB, SocketIO, Bootstrap, Git/Github, JIRA, VS code, Visual Studio, Confluence, SSH, Vim, SCP, Bash, Linux, Google Cloud Platform, Arduino, Jenkins, JQuery, NLP

EXPERIENCE

Amazon
May 2023 – Sept 2023

Software Development Engineer Intern — *Toronto, ON*
- Designed and built a comprehensive end-to-end project, leveraging **AWS** services **SQS, DynamoDB, DAX, SNS, VPC**
- Utilizing **Kotlin** developed a partitioning mechanism to distinguish between data types, enhancing data accuracy by **90%**.
- Effectively managed data storage, implementing **DAX caching** strategies that reduced costs by an impressive **45%**.
- Managed the entire **project cycle**, integrating it into the team's system, ensuring no latency, and achieving **zero** delays
- Established **CloudWatch** alarms and custom real-time **dashboards** to monitor **p90**, **max**, **min** and **average metrics**
- Designed **CDK infrastructure** to be easily configurable for future datasets, ensuring **scalability** and **adaptability**.
- Introduced the capability of handling over **2 billion** records per hour in the largest dataset using **AWS** services.

AMD (Advanced Micro Devices)
May 2022 – May 2023

Software Engineer Full Stack Intern — *Toronto, ON*
- Built auto-scaling and self-healing back-end using **Ruby** & **YAML** performing **Regression** tests of **1k+** tests in parallel.
- Leveraging **Ruby** to develop services boosting work efficiency by **70%** through automation of **CI/CD** logging **pipelines**.
- Creating a gateway for parsing and filtering log files using **REGEX**, further standardizing the current **logging** dashboard
- Implementing Agile methodology's best practices that increase software delivery processes' speed by **50%**.
- Developing and maintaining **PHP** front-end code relaying data to **MySQL** back-end utilizing **REST API** requests.
- Utilizing **JIRA** and communicating with other engineers to monitor and resolve various issues in the back-end.
- Using **SSH**, **Vim**, **SCP**, and **BASH**, through remote **Linux** environment monitoring deployment process and debugging.

PROJECTS

2D Action Game | *C#, Unity, Photoshop*
- Developed a 2D multi-level game that allows your character to freely move in an environment and shoot projectiles
- Utilized the **Unity** engine to construct script **API** in **C#**.
- Leveraged A.I. dependencies to create enemies with various difficulties, designed a user-friendly GUI utilizing **PhotoShop**
- Developed a robust **algorithm** to generate dynamically changing levels using **C#**.
- Collaborated with a colleague to compose numerous **OOP** scripts and debug code on visual studio code utilizing **C#**.

Retail Store DBMS Application | *Java, Python, SQL, React, Flask, HTML/CSS, Git/GitHub*
- Created an eCommerce application using **SQL** and **Java** that pulls information from a computerized database.
- Utilized **SQL** developer connected to **Oracle**, to construct a database and used queries to retrieve data within the **DB**.
- Developed a user-friendly interface using **React** & **Flask**, and implemented software design patterns to improve scalability
- Designed the database with various relations with appropriate key values, constraints, and data types.
- Implemented various functionalities such as search items, categories, discounts, and inventory.

Interactive Drawing Game - Skribble Guess | *NodeJS, ReactJS, SocketIO, HTML/CSS, JavaScript, Git/GitHub*
- Utilized **NodeJS**, **ReactJS**, and **SocketIO** to create an online multiplayer drawing game.
- Developed an interactive and visually appealing User-Interface using **HTML, CSS,** and **JavaScript**.
- Created and Implemented various **Unit Tests** to ensure that each part of the application is working as intended.

Book Store Application | *Java, JavaFX, Git/GitHub*
- Developed a functional bookstore application using **Java** with an admin and customer portal.
- Incorporated features such as searching for books, adding customers to the database, and a functional reward system.
- Designed and created a user-friendly interface for various parts of the application using **JavaFX**

EDUCATION

Toronto Metropolitan University
Toronto, ON

B.Eng Computer Engineering, CGPA: 3.90 — *Aug 2019 - May 2024*
Relevant Courses: Digital Systems ● Software Systems ● Data Structures and Algorithms ● Object-Oriented Analysis and Design ● Database Systems I ● Microprocessor Systems ● Signals and Systems I ● Computer Visions ● Computer Networks