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Summary of Qualifications

- 3+ years of experience in software development through internships, full time work experience, and projects.
- 3+ years of programming experience in Python Java, JavaScript and C++.
- Strong background and experience in using git, version control, performing code reviews, and comfortable working in an agile environment.
- Good communication and teamwork skills through numerous presentations, group projects, and work experience.

Relevant Experience

BillEase

August 2020 - July 2021

Co-Founder and Lead Software Developer

Chittagong, Bangladesh

- Co-founded a software development company that specializes in creating bill management applications for businesses, allowing companies to enter, store, query, and visualize their bill data.
- Developed the application architecture and database schema, ensuring scalability, efficiency, and maintainability.
- Collaborated with clients to identify their specific needs, offering tailored solutions that met their unique requirements.
- Successfully developed bill application for 5 companies and earned a total revenue of more than \$5000.
- Front-end languages: HTML, CSS, JavaScript, Back-end languages: PHP, SQL.

Central Hardware Stores

Nov 2019 – Feb 2020

Software Developer Intern

Chittagong, Bangladesh

- Collaborated with a team of developers to design and develop a bill application for users to enter bill information, save it in a database, query it, and view the data in the form of charts.
- Conducted code reviews, identified and fixed bugs, and ensured the application was scalable and maintainable.
- Utilized technologies such as HTML, CSS, JavaScript, PHP, and MySQL to create a dynamic and user-friendly application.

Education

University of Waterloo

January. 2022 – April 2023

Master of Mathematics (MMath) in Computer Science, CGPA: 93/100

Waterloo, ON

Monash University

February. 2016 – June 2020

Bachelor of Computer Science (Honours), CGPA: 4.0/4.0, Awarded Overall Best Graduate.

Clayton, Australia

Projects

Tic Tac Toe | *Node js, Express.js, Socket.io, HTML, CSS, JavaScript*

- Developed an app that acts as a tic-tac-toe game such that multiple players (clients) can play from their browsers (i.e. the client is a webpage) and interact in realtime.

StopFire | *Apache Kafka, Apache Spark Streaming, MongoDB, PyMongo, Python*

- Built a complete setup from streaming to storing and analyzing the data from sensors employed in different Victorian cities to predict and stop fire.

Human Resources and Sales Order Warehouse | *Multi-fact Star Schemas, OLAP, Access Plans, Query Trees, SQL*

- Developed a data warehouse through the process of creating an ER diagram, data cleaning, designing multi-fact star schemas, OLAP queries to perform data analysis and query optimization using access plans and query trees.

Concurrent Hash Table Data Structure | *Multi-threading, OpenMP, C++*

- Designed two concurrent hash table data-structure implementations and performed a comparative performance analysis.
- In particular, the two variants were 1) Hash table with atomics and KCAS constructs., 2) Hash table with Transactional Lock Elision (TLE).

Technical Skills

Languages: Python, C/C++, Java, JavaScript, SQL, MIPS, R, Haskell, MARIE, PHP, HTML, CSS.

Developer Tools: Pycharm, Eclipse, VS Code, Android Studio, Anaconda.

Technologies/Frameworks: Linux, GitHub, Git, Google Colab.