QI(TOMMY) SHU

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WORK EXPERIENCE

TD Securities   *May 2022 - Aug 2022*
Intern,Software Developer
- Enabled application specific query capability on internal tooling services.
- Enabled users to generate financial report automatically using GraphQl.
- Researched on graph database POC and migreated multiple microServices from mongoDB to neo4j.
- Skills/Tools: *Java(Spring), JavaScript(Node.js), Monogodb, Neo4j, Elixir, GraphQl*

CaseWare International   *May 2021 - May 2022*
Intern,Software Developer & Software Developer in Test(May 2021 - Sep 2021)
- Designed and wrote End-to-End UI automation test for team product release in an Agile development environment.
- Implemented a system validating parquet files extracted from AWS S3 against CSV files from API, increased testing efficiency by 30%.
- Improved upon a large existing Java and Angular codebase by increasing test coverage and fixing bugs.
- Worked on building a Business Intelligence MicroService, boosted revenue by 8%.
- Skills/Tools: *Java(Spring, Mockito), TypeScript(Angular, Cypress.io), NoSQL, AWS*

Lexivalley, Inc.   *Sep 2019 - Aug 2020*
Intern, Software Developer
- Reconstructed the old website, added Login/Authentication system, Email verification and Payment system.
- Developed the backend system, Database and crafted web flow, and deployed it using GCP, increased visitors by 50%.
- Skills/Tools: *Python(Flask), JavaScript, HTML/CSS, Google Cloud Platform, Git, MySQL*

PROJECTS

Flask blog
- A full stack blog web application.
- Used SQLAlchemy to handle account and posts' data.
- Skills/Tools: *Python(Flask), SQLAlchemy, JavaScript, HTML/CSS, OOP, REST API*

2048 Game
- A 2048 Game programmed in Java following OOD and MVC patterns. Covered with Unit Testing.
- Skills/Tool: *Java(Swing), Junit, MVC, Object-Oriented Design*

COVID-19 Info Tracker
- An application that tracks local COVID-19 spreading information based on user's IP address.
- Used Machine Learning libraries to predict future spreading based on data from external API.
- Skills/Tools: *Python(Flask, Pytorch), REST API, Machine Learning*

Exact Match
- A Python tool with GUI to compare exact match of two csv files regardless the data order.
- Skills/Tool: *Python(Pandas, Tkinter)*

EDUCATION

McMaster University   *Sep 2019 - April 2023*
Computer Science (Co-op) B.A.Sc   *cGPA 3.9 / 4.0*

- Extra Curriculum: Competitive programming club, Google Student Developer Club, Robomaster, AI Society.

- Honours/Awards: 2nd Place in Isaac Data Science Case Competition(2021), McMaster Engineering Competition Finalist(2020), Dean's Honor List(2020-2021), President Scholarship(2019).

SKILLS

Python, Java, JavaScript, TypeScript, Dart, Bash, SQL/NoSQL, Linux/Unix, HTML/CSS, Git, LaTeX, REST API React, Angular, Flask, MySQL, Pytorch, Doxygen, Google Cloud, AWS, Agile, Design Patterns, MicroServices