Yousef Al Hashemi

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TECHNICAL SKILLS

- Proficient: C++, Python, Java, Typescript, Unix Terminal
- Exposure: C, Bash Scripting, Makefile, Golang, HTML, CSS, JavaScript, Perl, TCL

WORK EXPERIENCE

Questrade | Full Stack Engineer Intern | May 2022 – Aug 2022

- Wrote a REST API endpoint in Typescript with NestJS to fetch information from an internal SQL database.
  - Designed the OpenAPI YAML specification.
  - Authenticated that users had proper security scope.
- Investigated dropped messages in the high speed messaging system.
  - Set up infrastructure to collect relevant statistics.
  - Collaborated with other teams to implement solutions.

Intel | Software Engineering PEY Intern | May 2020 – Aug 2021

- Wrote an internal netlist writer in C++ which converts internal data structure into hardware code.
  - Used to verify the functional correctness of modifications made to the internal data structure.
- Maintained an analytics service written in Python.
  - Brought the service which had been down for months back online.
- Collaborated on a graph visualization software which took netlist data files and displayed them.
  - Allowed users working with the data files to query custom paths and understand their work better.
- Created a build time script to consolodate and convert legacy XML data into new updated formats.
- Created regression testing infrastructure and unit tests for various flows.

EDUCATION

Bachelor of Applied Science, Computer Science | McMaster University | Sept 2018 – present

- Relevant Coursework: Data structures and Algorithms, Concurrent Systems, Principles of Programming, Databases, Algorithms and Complexity, Computer Networks and Security, Operating Systems
- Current Cumulative GPA: 11.5/12

PROJECT WORK

RoomE - Capstone | Sept 2021 – Mar 2022

- Worked with a group of peers to create a robot which would automatically explore indoor environments, create maps of them using LIDAR, and upload them to a website where they could be viewed.
- Created the code to solve pathfinding, SLAM, frontier exploration, and serial communcation with the drive train

Patent Connect | Feb 2020 – Mar 2020

- Worked with a group of peers to create an application in Java which created a graph of the chain of references for any given US patents.
- The interface was interactive and allowed users to view information of individual patents scraped from Google Patents.
- Was involved in the scraping, database, and testing parts of the project.