MOHAMMED SAHL

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SKILLS

Languages: C++, C, Python, Typescript, Javascript, Rust, Java, HTML, CSS

Tools: Node, React/Redux, Sails/ExpressJS, Redis, PostgreSQL,

Cypress, Espresso, Git, Docker, Jenkins

Relevant Projects

Util-bot - Rust, PostgreSQL, diesel, serenity

July 2020

- Developed an open source utility discord bot using Rust to serve bash-like commands helping server members analyse, organize and optimize their workflow
- Architected a DX friendly API making on-boarding easier for aspiring contributors to the project
 js-word Typescript, PowerShell
 June 2020 July 2020
- Collaborated in a group of 7 to implement a parser and writer for various word processing formats
 - Reduced file type detection to logarithmic time complexity by implementing trie data structure
 - Developed the **XML** file handler for unzipped .docx, .odt, .ods, .odp file-types
 - Starred by 1.1k+ users, forked 190+ times and downloaded 136k+ times weekly

Auto Project Structure - React, Typescript, TSX, styled-components

June 2020

- Developed a repository structure tree generator with the Github API

Biquadris - C++, Bash

November 2019

- Collaborated in a group of 3 to implement a graphical, 2 player version of Tetris with special abilities and difficulty levels
- Adopted the MVC design pattern to build user-interface allowing concurrent project development
- Applied the **factory method** design pattern to implement block generation
- Utilized the **observer** design pattern to enable inter-class communication of state information

WORK EXPERIENCE

Major League Hacking

Software Engineering Fellow

(Remote) Waterloo, ON May 2020 - August 2020

- Architected and deployed the backend server and established a testing framework used for v2 of the Babel Repl in 4 weeks
- Collaborated in developing **js-word** and contributed to the **sheetJS** projects by **SheetJS**
- Contributed to the docsify.js project by adding bug fixes, making UI alterations and administering test infrastructure changes
- Committed to **various open source projects** with a **team** of **Fellows** under the educational mentor-ship of a professional software engineer

WorkMarket - ADP Canada

Toronto, ON

Quality Engineer

May 2019 - August 2019

- Planed, developed and administered software test plans to detect and diagnose errors and bugs for the company's Android platform. Increased automated test case coverage from 62% to 87%
- Executed integration, regression and sanity testing to certify software stability prior to launch
- Identified and automated highly repetitive test cases increasing testing process speed by 25x
- Developed thorough documentation to optimize the on-boarding process for new employees
- Collaborated in the development of the mock automated test suite.

EDUCATION

University of Waterloo - Candidate for Bachelors in Computer Science (3.77 GPA) Waterloo, ON Relevant Courses: Expected April 2023

- CS240: Data Structures and Data Management
- CS246: Object-Oriented Software Development