

# MOHAMMED SAHL

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## SKILLS

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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

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- 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
  - Implemented an **efficient algorithm** to parse file signature helping pass file-stream to appropriate file handlers
  - Developed the **XML** file handler for unzipped .docx, .odt, .ods, .odp file-types
  - Starred by **1.1k+** users, forked **190+** times and downloaded **129k+** 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 develop user-interface allowing for simultaneous development of project
  - 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

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- Major League Hacking** (Remote) Waterloo, ON  
*Software Engineering Fellow* 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
  - Communicated with the Quality Assurance team and Software Developers to coordinate testing, clarify requirements, and verify results.
  - 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

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- 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