MOHAMMED SAHL

 $mohammedsahl.dev \cdot mskably@uwaterloo.ca \cdot in/mohammed-sahl \cdot mohammedsahl$

Summary

- · Experience with Android development, Salesforce, full-stack frameworks, scripting and compilers
- · Python, JavaScript, TypeScript, C/C++, Java, Kotlin, Go; React/Redux, Sails/ExpressJS, Cypress

EXPERIENCE

Software Developer

(Remote) Waterloo, ON

Google

January 2022 - April 2022

· Working on streamlining the configuration file generation process by building internal services using Go

Android Developer

(Remote) Waterloo, ON

Wonolo

September 2021 - December 2021

- · Reduced tax form request times by adding a self-service screen using Jetpack Compose and LiveData
- · Improved team agility and mitigated technical debt by adding Moshi parsing to core app models (MVVM)
- · Increased percentage of crash-free users by 0.5% over several app releases by diagnosing & fixing bugs

Salesforce Developer

(Remote) Waterloo, ON

Manulife

January 2021 - April 2021

- · Revamped dataflow pipeline with Apache Nifi increasing reliability in data transfer from SFTP to Salesforce
- · Programmed Apex Batch classes and Triggers to process 20,000+ records across several campaigns
- \cdot Dropped application load times by 57% by converting to a stateful architecture for event propagation

Software Engineering Fellow

(Remote) Waterloo, ON

May 2020 - August 2020

Major League Hacking

- \cdot Built a RESTful back-end server and testing framework for $\mathbf{v2}$ of a JavaScript transpiler sandbox
- · Developed a word processing document parser and contributed to a spreadsheet data toolkit
- · Added E2E tests using Cypress helping validate UI and server requests for a documentation generator plugin

Quality Engineer

Toronto, ON

WorkMarket

May 2019 - August 2019

- · Expedited build and release pipeline by 25x by automating repetitive test cases using Espresso
- \cdot Developed software test plans for the Android platform increasing case coverage by 30%
- \cdot Reduced employee on-boarding times by 4x by consolidating documentation into a single repository

PROJECTS

Babel-Repl | JavaScript, React, SailsJS, Supertest

- · Engineered a sandbox that transpiles code from ES6 to ES5 syntax with custom plugin and config support
- · Introduced functionality to save and fork blobs, view AST with syntax highlighting and transpile history
- · Implemented back-end and testing infra using SailsJS's MVC framework

C-Compiler | C++, Assembly, Bash

- · Created a compiler that scans, parses and generates executable files from C source code
- · Implemented loops, variable assignment, function definitions, conditional, arithmetic and return statements
- · Uses LR(1) NFA parsing to analyse a context-free language and produce derivation for a given string

WordJS | TypeScript, PowerShell

- · Architected a word processing document library with 1.2k+ stars, 200+ forks and 402k+ weekly downloads
- · Implemented logarithmic time file type detection by using trie data structure to process file signatures
- · Developed a file-type agnostic XML handler to parse through text blocks for unzipped files

Auto-Repo-Struct | React, TypeScript, TSX

· Authored a plugin to allow users to visualize, in tree form, repository structures on Github

EDUCATION

University of Waterloo

 $Waterloo,\ ON$