

# MOHAMMED SAHL

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## SUMMARY

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

## EXPERIENCE

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### Android Developer

Waterloo, ON

Faire

September 2022 - December 2022

- Decreased median time to accept an order by **3x** by building an order details tab with Jetpack Compose
- Reduced average brand response times by **15%** by engineering a send image functionality in the chat screen

### Software Developer

(Remote) Waterloo, ON

Google

January 2022 - April 2022

- Designed and implemented an internal service used by Anthos teams to coordinate releases.
- Reduced Anthos release planning by **10+ days** by automating dependency logistics between teams

### Android Developer

(Remote) Waterloo, ON

Wonolo

September 2021 - December 2021

- Reduced tax form request times by **3 hours** by adding a self-service screen using Jetpack Compose
- Improved team agility and mitigated technical debt by adding Moshi parsing to core app models
- Increased percentage of crash-free users by **0.5%** over several app releases by diagnosing & fixing **20+** 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
- Dropped application load times by **57%** by converting to a stateful architecture for event propagation

### Software Engineering Fellow

(Remote) Waterloo, ON

Major League Hacking

May 2020 - August 2020

- Built a RESTful back-end server and testing framework for **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
- Developed software test plans for the Android platform increasing case coverage by **30%**

## PROJECTS

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### 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 **1.3k+** stars, **200+** forks and **1.44m+** 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

## EDUCATION

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### University of Waterloo

Waterloo, ON

Bachelor in Computer Science (Co-op)

September 2018 - April 2023