

Michael Socha

4B Software Engineering, University of Waterloo

Graduating April 2019

msocha@edu.uwaterloo.ca

github.com/m-socha

m-socha.github.io

Technical Skills

Back-end development: C/C++, Java, Python, Scala, PHP/Hack, Thrift, ZooKeeper

Data storage and processing: MySQL, PostgreSQL, MongoDB, Hadoop, Spark, Hive, Kafka

Front-end development: React, React Native, GraphQL, jQuery, Backbone.js, RequireJS, Swing

Mobile development:

- Android development with Java, Kotlin, RenderScript, OpenGL ES
- iOS development with Swift, Objective-C

Work Experience

Software Engineering Intern, Facebook

Seattle, WA, *Sep 2018 - present*

- Working as a full-stack developer on the Political Authenticity team's identity verification framework

Software Engineering Intern, Facebook

Menlo Park, CA, *Jan - Apr 2018*

- As a member of the Job Search team, added several React Native mobile surfaces to help page admins manage their job posts, including a new applications and upcoming interviews surface
- Built Hive data pipelines, a PHP API and a React Native mobile front-end to implement an insights dashboard that shows page admins key metrics for their job posts

Mobile Engineer - iOS, Wish

San Francisco, CA, *Apr - Aug 2017*

- Participated in a complete rewrite of Wish's iOS e-commerce app from Objective-C to Swift
- Implemented the new app's networking layer, including API services, login, and session management
- Built several user-facing features of the app, including product details and merchant profile pages

Mobile Engineer, Wish

San Francisco, CA, *Aug - Dec 2016*

- Implemented features across Wish's mobile and web e-commerce clients, with results including an increase of over 4% in annual order volume and a doubling of product shares to social media
- Revamped fraud detection algorithms to analyze different criteria for high-value users, preventing thousands of false positive detections per month

Software Developer - Android, Rave (formerly WeMesh)

Waterloo, ON, *Jan - Apr 2016*

- Expanded WeMesh's distributed video synchronization client on Android to support video streaming from three additional content sources (Dropbox, Google Drive, Google Photos)
- Applied OpenGL ES to implement video filters, including blurring and letterbox cropping

Application Developer, Kenna

Mississauga, ON, *May - Aug 2015*

- Applied JavaScript with jQuery, HTML, CSS, and MS SQL to build features on enterprise websites
- Implemented ad hoc data queries for custom data extraction and analysis using MS SQL

Technical Projects

Sana Mobile, Nov 2017 - present

- Contributing to a v.2 release of an open-source mHealth platform for Sana, which is an MIT-based organization dedicated to improving global health

Political Districting System, Apr - Aug 2018

- Built an AI system that applies genetic and tabu metaheuristics to automate political districting

KIREA Admin Portal, Aug 2014 - Feb 2017

- Designed, implemented and maintained a PHP and MySQL web portal for administrators of a charity to manage donors, automatically generate and email receipts, and analyze donation trends