

Sebastian Kolosa

+1 415 579 7574 · skolosa@edu.uwaterloo.ca · sebastiankolosa.com · github.com/seabsaye · linkedin.com/in/skolosa

SKILLS

- **Languages:** Swift, Objective-C, Python, Java, Kotlin, C++, Bash, JavaScript, HTML, CSS
- **Technologies:** iOS, Android, KIF Tests, Quick, Nimble, Alamofire, Socket.IO, Arduino, MIDI, AngularJS 1
- **Tools:** Git, CocoaPods, Unit / Integration / Snapshot Tests, Vim, Matplotlib, Docker

EXPERIENCE

Software Engineering Intern – PagerDuty, San Francisco, CA Sep 2018 – Dec 2018

- Utilizing **Swift** and **Protocol-Oriented Programming** in the iOS app as well as **Java**, **Kotlin**, **MVVM**, **RxJava 2**, and **Dagger 2** in the Android app to develop new features and optimize the user experience of the applications
- Leading iOS / Android app architecture initiatives to develop a long-term app maintainability and scalability plan

Mobile Engineering Intern – PagerDuty, Toronto, Canada Jan 2018 – Apr 2018

- Re-architected sections of the **Swift** iOS app using **Protocol-Oriented Programming**, reducing duplicate / boilerplate code and a coupled inheritance structure while significantly increasing code testability and scalability
- Led engineering meetings to scope and detail the implementation of a new substantial iOS / Android app feature
- Contributed to implementing live-updates throughout the iOS and Android apps via **WebSockets** to deliver urgent information proactively, minimizing stakeholder response time and removing the need to manually refresh
- Employed exhaustive **unit, integration, and snapshot tests** within new features and improvements in the iOS app, increasing overall code coverage by **12%**

Software Engineering Intern – TribalScale, Toronto, Canada May 2017 – Aug 2017

- Architected **6 features** and **15 bug fixes** for major cruise line's **Objective-C** iOS app with 20k+ daily active users
- Harnessed **dependency injection** to build iOS cruise event planner system in a testable and scalable manner
- Utilized **Core Data** and an iOS XMPP framework to develop message flow for cruise chat system

iOS Engineering Intern – TD Innovation Labs, Waterloo, Canada Sep 2016 – Dec 2016

- Built the MVP of a confidential **Swift** iOS app in a team of 5, implementing **29% of the 15452 line app**
- Architected a monetary savings breakdown feature that utilizes a **Node.js / Express.js** API to display dynamic bar graph views of the savings accumulated per child in a family savings **Objective-C** app

Full-Stack Engineering Intern – Ark Paradigm, Waterloo, Canada Jan 2016 – Mar 2016

- Wrote **Python** automation scripts that utilized the Crunchbase API to scrape financial metadata for FinTech start-up
- Implemented reusable **AngularJS 1** components for company site to optimize site's scalability and performance

PROJECTS

Drum MIDI Controller – Arduino Developer May 2018 – Aug 2018

- Wrote the **Arduino C++** source code, allowing the controller to communicate with music production apps via **MIDI**

Tweet Emotes – Python Developer Nov 2017 – Dec 2017

- Developed a **Python** script with **Matplotlib** and a **Sentiment Analysis** API to discover trends with political tweets

Everest – Chief iOS Developer and Project Lead Sep 2016 – Aug 2017

- Implemented **86% of the 11129 line Swift app**, which includes **WebSocket** and **QR code scanning** functionality

EDUCATION

Systems Design Engineering – University of Waterloo, Dean's Honors List Sep 2015 – Apr 2020

Digital Computation / Systems, Data Structures & Algorithms, Human Factors in Design

INTERESTS

- A Capella
- Music Production
- Photography
- Snowboarding
- Rock Climbing