

Sebastian Kolosa

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SKILLS

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

EXPERIENCE

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

- Utilizing **Kotlin, Java, MVVM, RxJava 2**, and **Dagger 2** in the Android app, **Swift** and **Protocol-Oriented Programming** in the iOS app to develop new features and user experience improvements
- Leading iOS app architecture initiatives to enable long-term app maintainability, testability, and scalability

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

- Implemented live-updating throughout the iOS and Android apps via **WebSockets**, **reducing mobile HTTPS request overhead by 48%** and **decreasing information retrieval times by 43%**
- Re-architected sections of the **Swift** iOS app using **Protocol-Oriented Programming**, **diminishing duplicate / boilerplate code by 81%** and reducing the inheritance structure to significantly increase testability and scalability
- Led engineering meetings to scope and detail the implementation of a new substantial iOS / Android app feature
- 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
- Wrote a **Bash** script to automate the dependency installation and integration process for cruise iOS app

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** iOS app

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

- Wrote **Python** automation scripts that utilize 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