

# Sebastian Kolosa

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## SKILLS

- **Languages:** Swift, Objective-C, Python, Java, Kotlin, C++, Bash, JavaScript, HTML, CSS
- **Technologies:** iOS, Android, KIF Tests, Alamofire, Dagger 2, Quick, Nimble, Socket.IO, AngularJS 1
- **Tools:** Git, CI, CocoaPods, Unit / Integration / Snapshot Tests, Charles Proxy, Vim, Matplotlib, Zsh, Docker

## EXPERIENCE

**Software Engineering Intern** – PagerDuty | San Francisco, CA Sept 2018 – Dec 2018

- Built new features and UX improvements for the Android app using **Kotlin, Java, MVVM, RxJava 2**, and **Dagger 2**
- Optimized Android on-call visibility, incident alerting for **100K MAU** via new user screen and notification developments
- Lead iOS app architecture initiatives by developing a **Clean Swift** app and educating the company on its use cases
- Minimized employee lookup times via a **location finding feature in Ruby and HAML** on company's in-house web app

**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 an on-call-scheduling 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+ DAU**
- 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 Sept 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

## PROJECTS

**Everest** – Chief iOS Developer and Project Lead Sept 2016 – Aug 2017

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

**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

**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

## EDUCATION

**Systems Design Engineering** – University of Waterloo | Dean's Honors List Sept 2015 – Apr 2020

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

## INTERESTS

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