

# 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

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

- Built new Android features involving notifications and on-call scheduling with **Kotlin, Java, MVVM, Dagger 2, RxJava 2**
- **Increased Android app daily active users by 11% (1200 users)** and **decreased average on-call shift override times by 38 seconds** by implementing a new user profile screen that integrates with users' on-call schedules
- Led Mobile Team iOS architecture initiatives by building a **Clean Swift Architecture app** and educating the company on its use cases with a seminar and technical documentation
- Minimized employee lookup times via a location finding feature in **Ruby** and **HAML** on company's internal 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
- Wrote exhaustive **unit, integration, and snapshot tests** within new features and improvements in the iOS app, **increasing overall code coverage by 12%**
- Led team engineering meetings to detail the implementation of an on-call-scheduling iOS / Android app feature

**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 **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

**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 Sept 2016 – Aug 2017

- **Implemented 86% (11129 lines)** of event management **Swift** iOS app that utilizes **WebSockets, QR-code scanning**

## EDUCATION

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

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

## INTERESTS

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