

# 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, MIDI, Angular 1
- **Tools:** Git, CocoaPods, Unit / Integration / Snapshot Tests, Vim, Matplotlib
- **Concepts:** MVC, MVVM, Protocol-Oriented Programming, Dependency Injection, User-Centred Design

## EXPERIENCE

**Software Engineer** – PagerDuty, San Francisco, CA Sept 2018 – Present

- 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 enable long-term scalability and code integrity within the applications

**Mobile Developer** – PagerDuty, Toronto, Canada Jan 2018 – Apr 2018

- Re-architected portions of the **Swift** iOS app using **Protocol-Oriented Programming**, reducing duplicate / boilerplate code and a coupled inheritance structure while vastly increasing code testability and scalability
- Led engineering meetings to scope and detail the implementation of a new, high stake iOS / Android app feature
- Contributed to implementing live updates throughout the iOS and Android apps via **WebSockets** to display 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 code refactors in the iOS app, increasing overall code coverage by **12%**

**Software Engineer** – 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 iOS **dependency injection** pod to build cruise event planner system in a testable and scalable manner
- Utilized **Core Data** and the iOS XMPPFramework to develop message failure flow for cruise chat system

**Mobile Developer** – 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 monetary savings breakdown feature that utilizes Node.js / Express API to display dynamic bar graph view of savings per child in a family savings **Objective-C** app

**Full-Stack Engineer** – 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

## PROJECTS

**Drum MIDI Controller** – Arduino Developer, git.io/fxnZz May 2018 – Aug 2018

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

**Everest** – Chief iOS Developer and Project lead, everestapp.ca Sept 2017 – Aug 2017

- Utilized **Trello** to direct Scrum processes for team of 4 developing an event communication management iOS app
- Wrote **86% of the 11129 line Swift app**, which includes **WebSocket** and **QR code scanning** functionality

## EDUCATION

**Systems Design Engineering** – University of Waterloo, 3.72 cGPA, Dean's List Sept 2015 – Apr 2020  
Data Structures & Algorithms, Digital Computation / Systems, Human Factors in Design

## INTERESTS

- A Capella
- Music Production
- Snowboarding