

Sebastian Kolosa

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SKILLS

- **Languages:** JavaScript (ES7), TypeScript, GraphQL, Swift, Objective-C, Python, Java, Kotlin, React, HTML5, CSS3
- **Technologies:** iOS, Android, Apollo, Node.js, Hapi.js, Jest, Alamofire, SwiftyJSON, Matplotlib
- **Tools & Techniques:** Unit / Integration / Snapshot / KIF Tests, CI / CD, Dependency Injection, Charles Proxy, New Relic

EXPERIENCE

Credit Karma – Software Engineering Intern | San Francisco, CA May 2019 – Aug 2019

- Architected an **Apollo GraphQL client** for the UK product ecosystem in **TypeScript**, leading to a **100% REST API to GraphQL conversion** for credit reports and defining the standard for all future GraphQL work
- Updated the entire UK **React** frontend to interface with the new **GraphQL** client through **reusable GraphQL fragments**
- Developed a **modular GraphQL scalar validation framework** in **TypeScript** currently used to **validate 100% of the UK GraphQL network traffic**
- Led engineering workshops and presentations to disseminate **GraphQL** architecture knowledge and onboard engineers

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

- **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
- Built new Android features involving notifications and on-call scheduling with **Kotlin, Java, MVVM, Dagger 2, RxJava 2**

PagerDuty – Mobile Engineering Intern | 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%**

TribalScale – Software Engineering Intern | 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 a **dependency injection** library to build iOS cruise event planner system in a testable and scalable manner

TD Innovation Labs – iOS Engineering Intern | 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**

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

Data Structures & Algorithms, Digital Computation / Systems, Pattern Recognition, User-Centred Design

INTERESTS

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