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

 $\textbf{Systems Design Engineering} - \textbf{University of Waterloo} \mid \textbf{Dean's Honors List}$

Sept 2015 – Apr 2020

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

INTERESTS

A Cappella

• Music Production

Photography

• Snowboarding

Rock Climbing