

# Brian Norman

Software Engineer

## Experience

*Remote  
Fall 2020* **Amazon Web Services (AWS)** — Software Engineer Intern  
Migrated an internal service in AWS EventBridge (CloudWatch Events) to Elastic Container Service (ECS) on EC2 using AWS Cloud Development Kit (CDK) in TypeScript.

Developed engineering design, created timeline with milestones, engaged with stakeholders across the company, and developed a fallback-ready migration plan.

*San Francisco, CA  
Fall 2019* **PlanGrid (Autodesk)** — Software Engineering Intern  
Developed new feature in Kotlin Multiplatform sync library using Square's SQLDelight library, reducing code duplication in iOS, Android, and Windows clients.

Programmed Android Views using Airbnb's Epoxy Library, and new features with Room DB and Dagger.

Refactored architecture in Android app to MVI unidirectional data flow with RxJava and ViewModels.

*San Francisco, CA  
Winter 2019* **Life360** — Android Engineering Intern  
Programmed safety features for crash detection in Kotlin and Java using RxJava and Uber RIBs architecture.

Wrote gesture/tap event listeners that provided metrics and used them to create dashboards in Amplitude to help guide product decisions and A/B tests.

*Sunnyvale, CA  
Summer 2018* **Yahoo!** — Android Engineering Intern  
Developed a non-obtrusive panorama ad experience that increased user dwell-time 10x in Java.

Created a Panorama Ad Java library with hotspots and gyro/touch control in MVP architecture.

## Projects

**Community: Required Reading** — VueJS Web App  
VueJS web application with modern compression optimized for image loading over slow internet connections, static resources and Netlify web hosting.

**Factfulnews** — Kotlin Android App and ReactJS Web App  
News app with a NodeJS backend with category/read-time filtering and Natural Language Processing for article sentiment analysis.

**Behemoth** — Kotlin Android App  
Firebase Authentication and Machine Learning Kit that detects the object of a picture taken and stores it in a Firebase User database, with Google sign-in.

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## Education

**University of Waterloo**  
2016 - 2021 — Waterloo, ON  
B.A.Sc. in Computer Engineering with Distinction

Dean's Honour List 2020

## Skills

### Languages

Kotlin  
Java  
Javascript  
Python

### Android Development

RxJava  
Kotlin Coroutines  
Dagger  
Room DB  
Retrofit

### Web Development

ReactJS  
VueJS  
ExpressJS  
NodeJS  
HTML & CSS

### Other Tools

AWS (EventBridge)  
Firebase  
Heroku  
Figma  
MySQL