

# Brian Fitzgerald

*Curriculum Vitae*

## PERSONAL DETAILS

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<i>Address</i>	36 North Cedar Lake Dr East Apt 103
<i>Phone</i>	(618) 616-3533
<i>Mail</i>	brianfitzgerald242@gmail.com
<i>GitHub</i>	<a href="https://github.com/brianfitzgerald">https://github.com/brianfitzgerald</a>

## WORK EXPERIENCE

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**Software Engineer** 2016 - present  
*CARFAX*

- Led the design and implementation of a queue system for sending hundreds of thousands of emails per day from various myCARFAX products.
- Worked on the rewrite of myCARFAX's core web applications from Angular to React/Redux.
- Created an architecture for one of CARFAX's first user-facing products running on Amazon Web Services. Collaborated on the strategy for migrating CARFAX's on-premises consumer services to an AWS-managed, Kubernetes-based infrastructure.
- Assisted with the design of the myCARFAX Shop Data Gateway, a solution for caching millions of items of Service Shop data and exposing it to other teams and services via a GraphQL API.
- Designed and implemented an automated screenshot testing system to identify and alert for visual regression in CARFAX's consumer and dealer facing products.
- Led the development of the CARFAX Service Shops application, which provides shops with a toolset for managing customer-facing data for their shop and viewing analytics.
- Designed and implemented a package-based frontend architecture for myCARFAX's core products over the span of several project timelines.

**Developer** August 2018 - present  
*Healium XR*

- Designed and developed the Healium Garden app, an AR experience that teaches users to regulate their breath and relax through an interactive minigame.
- Worked as a subcontractor to develop the CES demo experience for the MUSE 2 by Interaxon, an AR experience that allows users to try out a virtual version of the headset and explore its features in AR.
- Developed a platform for collecting and displaying analytics data for Healium's various wellness XR experiences, and providing it to users through a dashboard. Involved setting up a user account system and enterprise administration features.

**Developer** Oct 2015 - Jun 2016  
*Quark Works*

- Worked on a variety of native mobile applications, including ZephyrCharts, an aviation mapping application for pilots, and the companion app for Columbia's local Roots n Blues music festival. This involved developing iOS and Android native versions of each application.

- Developed a cloud architecture for managing content for the Roots n Blues project.

## Software Developer

Feb 2014 - Sep 2015

*WireCloud, LLC*

- Developed the frontend and backend systems for Gofer, a local food delivery service. Built a system for managing a stream of orders, and assigning them to drivers, as well as a customer-facing order tracking system. Also developed a companion mobile web application for drivers.
- Developed an automated cryptocurrency arbitrage system.

## SKILLS

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<i>Frontend</i>	TypeScript
	React / React Native
	Redux
	MobX
<i>Backend</i>	AWS / Terraform
<i>DevOps</i>	Golang
	Docker
	Kubernetes
<i>Mobile</i>	Jenkins
	Swift
<i>XR</i>	Android SDK
	Unity
	ShaderLab
	ARKit
	ARCore
	SteamVR

## REFERENCES

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Available upon request