

Carl Liu

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Experience

Presence, Founding Software Engineer

July 2022 – Current

- We are a AR Social startup based in San Francisco, doing a lot of pioneering work to defy distance between human beings

Airbnb, Software Engineer II

January 2021 – July 2022

- Full-stack engineer working on Airbnb platform products; built many core features for customer agent tools and chatbot
- Single-handedly developed Airbnb review modification notification system
- Maintainer of [airbnb/visx](#), an open-source visualization project that has >15k on Github
- 2021 Hackathon winner, built a 3D earth that shows your previous Airbnb stays and travel history

Tableau Software, Software Engineer

October 2018 – December 2020

- Built and maintained core features on Tableau Public, a SaaS product that allows millions of users to analyze data and publish their visualizations to the web. Feature lead for hashtag, search autocomplete, image and thumbnail generation with server-less architecture
- Refactored a large volume of legacy code to *Typescript, React, Redux* and setup *CI/CD* pipelines for Frontend codebase; increased the cycle of feature delivery and improved developer experience
- Mentored 3 interns, developed effective communication skills and gained a better understanding of project management
- Represented Tableau at React Conference 2019, and AWS Re:Invent

** Previously interned at Tableau Software, Metanautix (acquired by Microsoft), Face++, SAP, Baidu*

Education

McGill University, Montréal, Canada

September 2013 – April 2018

Bachelor's Degree - Major in Computer Science, Minor in Music Theory

Skills

Languages	Java/Kotlin, JavaScript (TypeScript), C#, Swift, Python, SQL, C, Ruby
Tools/Frameworks	Unity, iOS, React, Redux, D3, Git, Unity, Flask, Tableau, AWS, Docker, Kubernetes, Terraform, GraphQL, Kafka, ARKit/ARCore, Mediapipe
Others	User Growth, Media Marketing, CI/CD, Algorithms, UX/UI Design, Serverless, Music Theory, Jazz Guitar, Chinese

Projects*

Patternize.io

- An e-book that explains data structure and algorithms using user-friendly D3 visualizations. The goal of the project is to help people see and understand Computer-Science concepts in an intuitive way
- Project at patternize.github.io

JAMScript

- Developed with Professor Maheswaran at McGill University and his PhD. students to achieve real-time communication between distant IoT devices (connected through cloud platforms)
- Project description website at citelab.github.io/JAMScript