# **Carl Liu**

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# **Experience**

Emberlight.ai, CEO Current

Building the future of learning with AI-powered education

#### Presence, Head of Product

San Francisco, USA, 2022-2025

- Full-stack engineering including Web, iOS, Android, Flutter, and Backend technologies such as Vertex, Java, PostgreSQL
- As a Product Lead, built apps from zero to millions in ARR and raised over \$10 million in total

# Airbnb, Software Engineer II

Beijing, China, 2021-2022

- 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 20k stars on Github
- 2021 Hackathon Winner, built a 3D earth that shows your previous Airbnb stays and travel history

## **Tableau Software, Software Engineer**

Seattle, USA, 2017-2020

- 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
- Represented Tableau at React Conference 2019, and AWS Re:Invent

## **Education**

## Stanford University, California, USA

December 2024 - April 2026

M.S. Learning Design & Technology

## McGill University, Québec, Canada

September 2013 - April 2018

B.A. 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
Projects*	

# Patternize.io

- ◆ An e-book that explains data structure and algorithms using user-friendly D3 visualizations, ~500 stars on Github
- Project at <u>patternize.github.io</u>

#### **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

<sup>\*</sup> Code is also available at github.com/gazcn007 and carlrocks.com