Carl Liu

Website: www.carlrocks.com   **Phone**: 514-576-6859   **GitHub**: github.com/gazcn007
LinkedIn: linkedin.com/in/gazcn007   **Email**: gazcn007@gmail.com

Experience

Airbnb, Software Engineer   **January 2021 – Current**
- Full stack engineer working on Airbnb platform products; mainly working on agent tools
- Single-handedly developed Airbnb review modification notification system
- Maintainer of airbnb/visx, an open-source visualization project that has >14k on Github

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 three interns, developed effective communication skills and gained a better understanding of project management
- Organized Web Dev Community Meeting, a sharing platform for developers across Tableau

Face++ (Megvii Technology), Research Intern   **July 2018 – October 2018**
- Researched and developed an analytics platform for the facial recognition system under the supervision of IEEE CVPR best paper award winner Jian Sun; utilized *Python* (*Pandas*, *NumPy*, *Flask*), *D3.js* and *React*

Tableau Software, Software Engineer Intern   **September 2017 – December 2017**
- Improved load-balancing of Tableau Server by creating load testing tool

SAP, Software Engineer Intern   **January 2017 – June 2017**
- Developed prediction and forecasting services using *Java*, *Spring* and *SAP HANA*

Baidu, Software Engineer Intern   **June 2016 – September 2016**
- Developed Baidu internal procurement system using *React*, *Redux*, *Node*, *Spring and MySQL*

Metanautix (acquired by Microsoft), Software Testing Intern   **June 2015 – September 2015**
- Conducted acceptance test at scale for functionalities and performance using *Python*

Education

McGill University, Montréal, Canada   **September 2013 – April 2018**
Bachelor's Degree - Major in Computer Science, Minor in Music Theory

Skills

Languages	Java, JavaScript (TypeScript), Python, SQL, C, Ruby
Tools/Frameworks	React, Redux, D3, Git, Dropwizard, Flask, Tableau, AWS, Docker, Kubernetes, Terraform, GraphQL, Kafka
Others	CI/CD, Algorithms, UX/UI Design, Serverless, Music Theory, Jazz Guitar, Chinese

Projects*

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**

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**

* Code is also available at github.com/gazcn007 and carlrocks.com