

Carl Liu

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Experience

Tableau Software, Software Engineer

October 2018 – Current

- 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 hashtagging, autocomplete on search, image and thumbnail generation with Serverless 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 tech talk platform for web developers across Tableau
- Founding member of DVA Student Challenge, a visualization competition co-hosted by Tableau, Deloitte and CIBC (dvastudentchallenge.ca)

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 a serverless load testing tool using *Chromium* and *AWS SQS, DynamoDB, Lambda*

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
Tools/Frameworks	React, Redux, D3, Git, Spring, Flask, Tableau, AWS, Docker, Kubernetes, Splunk, Terraform, GraphQL
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