James Liu

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TECHNICAL EXPERIENCE

Google Inc. | *Software Engineer*
July 2018 – Present
- Full-stack engineer on the Google Cloud Billing Cost Reports team, focused on delivering tools and views to help customers analyze and understand their cloud spend.
- Tools I work on have **X00,000 MAUs** and are used by **~85% of enterprise Cloud customers** to analyze over **90% of overall spend**.
- Successfully drove design and development on high impact features, such as **shareable reports**, new dimension types, and several significant performance improvements (eg. taking browser memory usage on large accounts from **3GB down to 750MB** and time to interactive from **34s to 8s**)
- Hosted an intern, providing technical and career mentorship, leading to a successfully completed project by the end of the internship.
- Extensive work in **TypeScript** and **Angular**, in addition to proprietary **Java** based backends.

Google Inc. | *Software Engineering Intern*
May 2017 – August 2017
- As an engineer on the Firebase Performance Monitoring team, I implemented a new, **patented, interactive chart** design for showing distribution densities, calculated from existing quantile-based data.
- Worked closely with designers and statisticians to ensure the charts were statistically accurate while maintaining a quality user experience.
- Worked extensively with **AngularJS**, **D3**, and several proprietary Google engineering tools.

Yelp, Inc. | *Software Engineer Intern*
January 2017 – April 2017
- As part of the Growth team, I was responsible for developing features to drive app downloads and user engagement.
- Features I developed **directly caused X00,000s of additional pageviews** and **X000s of app installs** per month.
- Worked on a high visibility main site feature that allows users to send a business page from their computer to their phone via SMS.
- Implemented many check-in offer related features on the desktop site, including search result annotations, visibility on the business page, and sending offers to a phone.

TECHNICAL EXPERIENCE cont'd

Microsoft Corporation | *Software Developer Intern*
May 2016 – August 2016
- Participated in the Garage Internship Program, an intensive 4-month session focused on building new and innovative software in teams composed entirely of interns.
- Worked closely with the Office team to develop a new feature within PowerPoint.
- Primary developer on the real-time backend, built with **Node.js** and utilizing **Socket.IO** and SOAP network interfaces, as well as the user-facing app, developed with Angular.
- Developed an Android app in partnership with the City of Vancouver to promote public art around the city, primarily using C# and Xamarin.

Broadcom Corporation | *Application Software Engineer Intern*
May 2015 – December 2015
- Developed a patch creation program from scratch for use in releasing new firmware binaries for VOIP desk phones.
- Created a YUV video converter in ARM and NEON assembly and later integrated it with the Android OS source code, allowing hardware devices to **transcode raw 1080p video in real-time**.
- Developed internal tools to generate test patterns, raw video, and audio from scratch in C.
- Used WebRTC native code to implement audio encoding in a VOIP audio test application.

University of British Columbia | *Undergraduate Teaching Assistant*
August 2014 – April 2016
- Taught over **150 students in weekly tutorials**, in addition to designing, maintaining and ensuring tutorial content was up to date with the current course material.
- Helped answer students' questions online, and in-person during office hours, in addition to grading exams, assignments, and online quizzes.

SKILLS
- **TypeScript**, **JavaScript**, Python, Java, C#, C, C++, ARM, and NEON (SISD/SIMD) Assembly
- Angular, Node.js, Express
- Fluent with Windows, Mac OS X, and Linux
- Familiar with Adobe Creative Suite
- Proficient in Mandarin Chinese

EDUCATION
University of British Columbia, Vancouver, BC
Bachelor of Science, Computer Science
September 2013 – May 2018
4.33 GPA in computer science courses
3.95 GPA overall