Jerry Jiang
3A Software Engineering

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github.com/tpcstld

Technical Qualifications

- **Languages:** Javascript, Python, Java, C++, Scala, C#, Bash, SQL, R, Visual Basic
- **Technologies:** React, AngularJS, Play Framework, Flask, Node.js, Hadoop, Amazon Web Services
- **Tools:** Git, SVN, Vim, Eclipse, Visual Studio, SQL Server, Android Studio, IntelliJ IDEA, IDLE

Work Experience

Google – Kitchener, Ontario August 2015 – December 2015
Software Engineering Intern – Display Ads Infrastructure

- Maintained a critical Display Ads binary, a service that coordinates the ad serving system for AdSense and DoubleClick. It handles billions of requests per day.
- Improved release processes; designed and implemented a tool to detect configuration changes between redeployments, and consolidated over 20 automated release tasks.
- Designed and implemented a strategy for sending RPCs between two Display Ads services, aimed at improving latency and code reusability.
- Migrated two critical code paths from a state-machine based design to a patented Producer Graph design, enabling faster development.

Coursera – Mountain View, California January 2015 – May 2015
Data Infrastructure Engineer

- Built the frontend for Coursera's A/B testing platform in React, including experiment management tools and an analytics dashboard; scaling it up from 20 to 250 A/B experiments in 3 months.
- Developed and maintained back-end services; such as adding by-URL allocated A/B experiments and modifying Coursera's second-most popular API endpoint.
- Co-authored Dataduct, Coursera's open-source ETL library for Amazon Data Pipeline and Redshift, which manages all of Coursera's 110+ ETLs and 360+ tables for its data warehouse.

Desire2Learn – Kitchener, Ontario April 2014 – August 2014
Software Developer

- Implemented, and maintained new and existing features for the learning management system Brightspace.
- Collaborated with teammates to resolve over 40 performance, usability, and security issues.
- Extended RESTful APIs and native applications to help a client manage 30000+ metadata entries.

Projects

2048 Android App (ls.tpcstld.me/L8pssaNZo)

- A port of the 2048 puzzle game to Android
- Earned 350 000+ downloads, 4.4 stars with 3500+ reviews on Google Play

Youtube Downloader (youtube.tpcstld.me)

- A website that downloads YouTube videos in mp3 or mp4 format
- Tools: Python, FFmpeg, Foundation, Heroku

Education

Candidate for Software Engineering Sept 2013 – Present
University of Waterloo, Waterloo, Ontario

- Achieved a 93.36% cumulative average.