Jerry Jiang
2B Software Engineering

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github.com/tpcstld

Technical Qualifications

- **Languages:** Javascript, Scala, Python, Java, C#, Python, Bash, SQL, Visual Basic
- **Technologies:** React.js, Play, Flask, Node.js, AWS Stack (Redshift, DataPipeline, EC2, S3)
- **Tools:** Git, SVN, Vim, Eclipse, Visual Studio, SQL Server, Android Studio, IntelliJ IDEA, IDLE

Work Experience

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

- Built the frontend for Coursera's internal AB testing platform in React.js, including experiment management tools and an analytics dashboard; scaling it up from 20 to 200 experiments within 3 months
- Developed new, and maintained existing, back-end services; such as adding by-URL allocated AB experiments, and modifying Coursera's second-most popular API endpoint
- Co-authored [Dataduct](), Coursera's open-source ETL library for Amazon DataPipeline and Redshift, which manages all of Coursera's 110+ ETLs and 360+ tables for its Enterprise Data Warehouse
- Revamped Coursera's payment reporting system for its new "on-demand" platform

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

- Designed, implemented, and maintained new and existing features for webpages and products
- Collaborated with teammates to resolve over 40 performance, usability, and security issues
- Developed RESTful APIs and native applications to help a client manage 30000 metadata entries

Projects

2048 Android App (ls.tpcstld.me/LZ5VTvpNy)

- A port of the 2048 puzzle game to Android
- Earned 85000+ downloads, 4.4 stars with 1500+ reviews on Google Play

Youtube Downloader (youtube.tpcstld.me)

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

Audition Image Recognition

- An image recognition program to detect upcoming commands for the rhythm game Audition
- Tools: C++, OpenCV, Windows API

Activities and Clubs

Computer Science Club   Sept 2009 – June 2013
President

- Taught members algorithms (e.g. BFS) and data structures (e.g. queues)
- Participated in the CCC, ECCO, DWITE and CASCON programming contests

Education

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

- Achieved a 95.5% cumulative average