

## Technical Qualifications

- **Languages:** Javascript, Scala, Python, Java, C#, 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](https://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](https://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