

## Technical Qualifications

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

## Work Experience

**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
- Extended Coursera's accounting system to support its new "on-demand" platform

**Desire2Learn** – 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
- Extended 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 100 000+ downloads, 4.4 stars with 2000 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, 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 94.25% cumulative average