- » Involved in open-source efforts, and hacking away at personal projects
- » Strong leadership and communication skills
- » Efficient in a fast-paced environment with minimal aid or supervision
- » Able to grasp new concepts and technologies and use them effectively
- » **Technologies**: Node.js, Angular.js, Python, AWS, jQuery, Bootstrap, Java, MS Access, AutoCAD, PVSvst, PSS/E, MATLAB

Candidate for Bachelor of Applied Science Sept 2011 - Present University of Waterloo Electrical Engineering, Computer Engineering Option

- Cumulative GPA: 88.9, appearing on Dean's Honour List for 3 Academic Semesters
- Completed International Exchange at Lund University, Sweden
- Achieved A1 certification in Swedish and French
- Relevant Courses: Algorithms and Data Structures, Cooperative and Adaptive Algorithms, Software Architecture and Design, Computational Intelligence: Soft Computing

# **Software Engineer**

Sept 2015 - Dec 2015

New York, NY

BUSTLE

- Spearheaded infrastructure development to collect various metrics such as click events, app installation instances, etc. using Amazon's API Gateway and Lambda (node.js) in main Ember.js application
- Took charge of project that built infrastructure using ElasticSearch and Serverless, a framework that utilizes AWS to build serverless micro-services, to handle geo-ip requests, and further provide weather data and location based analytics for internal use

# **Software Engineer**

Jan - July 2015

Remote



- Spearheaded effort to integrate manual tests into testing framework using ideologies from Behaviour Driven Development utilizing Node.js, Cucumber.js, Embedded JavaScript (EJS), Bootstrap, and jQuery
- Authored scripts using Node.js to dynamically guery JIRA for completed tickets for automated Release Notes generation with EJS when product executable is built
- Integrated Flux-Angular into portions of Seeq's Angular application for "state"-ful data flow
- Addressed various bugs in Seeq's application front-end, and added Jasmine Unit Tests to improve overall code coverage

## Systems Engineering Associate

May - Aug 2014

Toronto, ON



- Generated PVSyst simulations to simulate shading analysis and annual specific power production for rooftop and ground-mount solar energy projects
- Conducted research on impact of snowfall, ambient temperature, and geographical location to determine soiling losses on power production using sensory data collected from project sites using Python for data analytics
- Headed Database development using Google Docs, and Google App Script to meet project specifications

## Power System Modelling Engineer

Sept - Dec 2013

Burnaby, BC **BChudro** 





• Used PSS/E, Python, AWK, FORTRAN, C#, as well as command line prompts of PSS/E to further develop the in-house "Base Case Generator."



#### Power System Model Management Intern

Jan - Apr 2013

Calgary, AB

- Performed PSS/E simulations of Alberta Interconnected Electric System, delivered base cases (Power Flow Studies), and maintained power transmission system asset database (TASMo)
- Analyzed project specifications sent in by Transmission Facility Operators with single line diagrams
- Prepared custom Python scripts to automate and optimize company procedures by tenfold



### WATERLOO Multimedia Application Developer

Apr - Aug 2012

Waterloo, ON

- Took charge of the smartphone component of the project, comprising of design aspects of front-end development in ActionScript such as audio-video streaming, SMS, and email features
- Learned Java and XCode for native implementation on both iOS and Android while using SVN repositories to monitor project progress



- Native Android app that envisions to combine media sources from different service into one unified playlist, also enabling nearby users to add to playlists allowing collaborative playlists from different platforms
- Technologies: Backend Heroku, Python, PostgreSQL; Frontend Android Studio, Spotify API, YouTube API, Facebook API

#### Columbus

- Web based application that uses flight fare API such as Amadeus to explore a user defined region on Google Maps for a given vacation period, such that popular cities are routed and an optimal solution is returned using heuristics to maximize popularity, minimize cost, and minimize travel time
- **Technologies**: Backend Python, Amadeus API; Frontend Django, Google Maps API

## **AutoTrip**

- Multi-platform application that inputs travel destination and duration of stay, and gauging user interests like cuisine, culture, nightlife, etc. and constraints like budget, generating a customized travel itinerary for individual users. It will also find travel logistics from place to place and allow caching of directions.
- Technologies: Backend Heroku, Python, PostgreSQL, Yelp API, Foursquare API, Google Places API, Google Maps API; Frontend - Django
- » University of Waterloo President's Scholarship of Distinction, University of Waterloo
- » Nortel Networks Undergraduate Scholarship, University of Waterloo
- » QEII Aiming for the Top Scholarship, University of Waterloo
- » University of Waterloo International Experience Award, University of Waterloo
- » SWEA International Toronto Inc. Travel Scholarship, Swedish Women's Educational Association Toronto
- » Siemens Canada Academic Achievement Award Scholarship, Electro-Federation Canada
- » Savvas Chamberlain Scholarship, University of Waterloo
- » Avid photography enthusiast, nature-lover, and seasoned traveller
- » Aspiring polyglot Knows French, Swedish, Hindi, Malayalam and 1 phrase in 11 different languages
- » Fond of Billiards, Poker, and Chess
- » Enjoys Soccer (on Inframural feam), Tennis, and Swimming



