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EMPLOYMENT

Intermediate Software Developer **Liberated Networks** December 2018 — September 2021

- Maintenance/ownership of many ASP.NET applications contracted out to national ISPs. C# and JavaScript.
- Exploration of machine learning techniques when applied to resumes and job matching. Python.
- Partial ownership of a Kanban-like stack used for procurement in Atlantic Canada. Java and Angular.

Software Engineer **BeyondTrust** January 2017 — January 2018

- Maintained full stack cyber security software deployment suite packaged with software marketed to Fortune 100 companies. Javascript (Angular 2 and 3) and Go.
- Monitored services and managed tooling and devops for the team using Jenkins and Docker.

Software Dev. Engineer I **Amazon** December 2015 — January 2017

- Touched, maintained, and real-time diagnosed many components of the website and microservice architecture underlying it (was on team focused on payment methods). Java with additional work in C++, Perl, Python, Ruby and Go.
- Served on-call on a regular monthly basis to monitor and manage large demand web services and platforms. Dealt with high-severity issues a number of times that impacted millions of customers.

EDUCATION

Halifax, NS, Canada **Dalhousie University** Fall 2009 — Spring 2015,
Fall 2020 — Summer 2023

- Doctor of Philosophy in Computer Science, *in-progress* 2020-2023. Fulfilled all coursework, partial thesis/seminar requirements. Was a Research Fellow for two labs and Teaching Assistant for multiple classes.
- Master of Computer Science, September 2015. Focus on combinatorics. GPA: 4.3
- Bachelor of Computer Science with Distinction, May 2014. In-Major GPA: 4.0

SKILLS

Programming Languages

- *Experienced* — Go, Python, C, Java, Ruby, C#, C++, Lua.
- *Familiar* — TypeScript, Dart, Rust, Swift, Objective-C, Scala, Perl, Prolog, Haskell, Scheme, Matlab, R.

Tools and Methodologies

- *Tools* — Git, Docker, LaTeX, Unix (ricing, GNU, etc.), AWS, MySQL, Mongo, Dynamo, Redis.
- *Frameworks* — Angular, ASP.NET, Hugo, Ruby on Rails, Flask, Vue, React, Flutter, Django, Mason, Tensorflow.

PROJECTS AND AWARDS

- *Pylogeny* — Peer-reviewed and published Python framework for combinatorics in phylogeny (2016).
- *ABeRMuSA* — Python CLI developed to perform 3D protein structure alignment (2016).
- *Undergraduate Student Research Award* (NSERC) — summer research internships in 2009, 2012, 2013.