

# ALEXANDER SAFATLI

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## EDUCATION

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### Dalhousie University, Canada

June 2015, September 2019-2020

PhD in Computer Science (*incomplete*, completed literature search and coursework 2019-2020)

M.S.E. in Computer Science (GPA 4.3)

B.S.E. in Computer Science (In-major GPA 4.0)

*Coursework.* Algorithms, Data Structures, NLP, OS, DBs, Software Engineering,  
Principles of Programming Languages, Architecture, Cryptography, Discrete Math *et al.*

*Extracurricular.* Secretary of CS Graduate Society, CS Society

## EXPERIENCE

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### BeyondTrust

January 2017 – January 2018

*Software Engineer*

*Halifax, NS*

- Maintained full stack development of a security software deployment suite and software panel packaged with software used by and marketed to Fortune 100 companies. *Go* and *Angular.js*.
- Managed tooling for software deployment for the team via tools like Jenkins and Docker.

### Amazon

December 2015 – January 2017

*Software Development Engineer I*

*Seattle, WA*

- Touched, maintained, and real-time diagnosed many components of the website and microservice architecture underlying it (was on team focused on payment methods). *Java*, *C++*, *Perl*, *Ruby*, *Go*, and *Python*.
- 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.

## TECHNICAL SKILLS

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<b>Languages</b>	C, Go, Python, Java/Scala, Typescript, Ruby, C#, C++, Lua, Prolog, Haskell, Swift <i>et al.</i>
<b>Frameworks</b>	Angular, ASP.NET, Ruby on Rails, Flask, Vue, React, Django, Mason, Tensorflow
<b>Databases</b>	MySQL, PostgreSQL, Microsoft SQL, Mongo, Dynamo, Redis
<b>Methodologies</b>	Machine Learning (SVMs, Random Forests, DNNs, k-NN), Data Mining
<b>Tools</b>	Git, SVN, Mercurial, Docker, L <sup>A</sup> T <sub>E</sub> X, Unix (ricing, GNU, etc.), AWS, <b>bash</b> , <b>zsh</b> , <b>vim</b> , <b>emacs</b>
<b>Protocols</b>	XML, JSON, REST, IMAP, SMTP, POP3, HTTP, UDP, TCP

## SELECT PROJECTS & PAPERS

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**Pylogeny (2016)** Framework for combinatorics in phylogeny. Peer-reviewed and published in *PeerJ*. *Python*.

**ABeRMuSA (2016)** CLI that performs multiple 3D protein structure alignment. *Python*.

**NootBot (2016-)** Discord bot that automates tasks and emulates a soundboard in *n* servers. *Java Spring*.

**Operating System (2014-2015)** UNIX-style x86 system with bare bone essentials. *C*, *Assembly*.