

ALEXANDER SAFATLI

GITHUB AlexSafatli · LINKEDIN asafatli · <https://safatli.dev>

Herring Cove · Halifax, NS, Canada B3R2N8

(902) 222-2084 · alex@safatli.com

EDUCATION

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

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

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

SELECT PROJECTS & PAPERS

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*.