ALEXANDER SAFATLI

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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

Liberated Networks December 2018 – September 2019 (part-time 2020 – 2021)

Intermediate Software Developer *Bedford, NS*

· Maintenance of several 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. *Java Spring and Angular 7.*

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 January 2016 – 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, Ruby, C#, C++, Lua, Prolog, Haskell, Swift *et al.*
Frameworks	Angular, ASP.NET, Ruby on Rails, Flask, Vue, React, 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, LaTeX, 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.*