

# Fahad Almusharraf

Computer engineer experienced in software development, AI, and security

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## CONFERENCE SPEAKING

**Speaker @ ElixirConf 2018.** Participated in the Elixir Programming Language conference with a talk titled "Beyond Command and Response Chatbot". <https://elixirconf.com/2018/speakers/fahad-almusharraf>

## WORK EXPERIENCE



### Teaching Assistant @ King Saud University

Riyadh, KSA, 05/2016 - present

Taught tutorials for courses such as Digital Logic Design (CEN 211, CEN 212) and Computer Architecture (CEN 316). Spent most of my employment on a scholarship pursuing a MASc and PhD degrees at UofT and CMU



### Teaching Assistant @ University of Toronto

Toronto, ON. 01/2017|2018 - 04/2017|2018

Taught C programming (APS 105) labs for two terms (Winter 2017, 2018)



### Security Software Engineer @ Lookout

Toronto, ON. 06/2015 - 11/2015

Developed enterprise cloud-based malware detection and analysis services for iOS/Android applications through static analysis and machine learning. Tools used include JRuby, Java, Apache Storm, Apache Kafka, and Weka



### Security Software Intern @ Lookout

San Francisco, CA. 08/2014 - 12/2014

Developed internal security tools for analyzing Android applications. Tools used include JRuby, Java, Ruby on Rails, Elasticsearch, and MySQL



### Software Engineering Intern @ BlackBerry

Waterloo, ON. 09/2013 - 12/2013

Developed a Virtual Filesystem (VFS) for Apache Subversion and OpenStack Swift storage backends for Linux and macOS. Tools used include C, Python, and FUSE



### Cloud Services Engineering Intern @ Apple

Cupertino, CA. 08/2012 - 04/2013

Developed internal tools for localizing Apple Maps, Dictionary, and macOS Geo data. Tools used include Ruby On Rails, Backbone.js, D3.js, and PostgreSQL



### BSS Applications Administrator Intern @ Mobily

Riyadh, KSA. 01/2012 - 04/2012

Worked in Operations on administrating business support systems in various environments. This includes the integration and maintenance of IBM Websphere MQ

## EDUCATION

- 09/2019 - 12/2021** **PhD candidate in Computer Engineering @ Carnegie Mellon University.** Passive Wi-Fi sensing using Deep Learning
- 09/2016 - 12/2018** **MASc in Computer Engineering @ University of Toronto.** Smoking-cessation chatbot using Natural Language Understanding
- 09/2010 - 04/2015** **BASc in Computer Engineering @ University of Waterloo.** Options in Software Engineering and Management Science

## SKILLS

**Programming** Elixir/Erlang, Python, Ruby, JavaScript/Typescript, Julia, Kotlin, C/C++, Java

**Web** Ruby On Rails, Phoenix, Flask, React, TailwindCSS

**Machine Learning** Scikit-Learn, PyTorch, TensorFlows, Weka

**Mobile** Android, React Native

**Tools** Git, SVN, SQLite, PostgreSQL, MySQL, Redis, DynamoDB, Realm DB

**DevOps** Docker, Terraform, Heroku, AWS, Digital Ocean, Cloudflare