

# Arshia Mufti

a2mufti@uwaterloo.ca · arshiamufti.github.io · github.com/arshiamufti

## EDUCATION

### University of Waterloo

Waterloo, Canada

Candidate for Bachelor of Computer Science, Honours · Expected August 2019

- **Relevant coursework** — Designing Functional Programs (advanced) · Elementary Algorithm Design & Data Abstraction (advanced) · Foundations of Sequential Programs (enriched)

## EXPERIENCE

### Bazaarvoice | *Software Engineer Intern*

September 2016—present | Austin, Texas

- On the Shopper Advertising Team: currently working on migrating the ad management platform from Maven to SBT, and EmoDB to MySQL · Scala · SBT · Jooq · Flyway
- Wrote services to export advertisement statistics and DFP creative, order, and line item data to the ad operations platform to allow for detailed ad conversion analysis · Scala · Google DFP
- Dockerized external dependencies for local development and integration tests · Docker · bash

### WeMesh | *Software Engineer Intern*

Jan 2016—April 2016 | Kitchener, Ontario

- Designed a new usership model—implemented features enabling users to request friendship, follow or block each other. Rewrote user authentication and login using Firebase · Scala · Akka · Thrift · Slick
- Added backend support for Vimeo · Clojure · Hystrix · Redis
- Rewrote a service to enhance the main video feed created from different content sources.
- Integrated Graylog into several microservices to speed up crash analysis and bug fixes.

### Waseel | *Software Engineer Intern*

May 2015—June 2015 | Riyadh, Saudi Arabia

- Designed an iOS application to allow users to access real-time, location-based data about hospitals · Swift · Java · HTTP networking in Alamofire · Location services using MapKit · Improved fuzzy search

### Women in Computer Science | *Chair*

May 2016—present | Waterloo, Ontario

- Publicly represented the committee to external organizations and secured funds for the committee
- Helped maintain the website, led weekly meetings, developed and promoted the volunteer program.

## SKILLS AND INTERESTS

- Strongly interested in performance improvement, and the theory and application of functional languages.
- Working experience with Clojure, Scala, Swift, PostgreSQL, MySQL, Docker, Kubernetes, and bash.
- Familiar with HTML5/CSS3, Python, C++, Java, Scheme, Google App Engine.

## PROJECTS

### Baylexa

AWS Lambda, Python

Led a team of four to design the winning healthcare app for MHacks: Refactor, an Alexa skill aimed at recognizing symptoms of common health conditions, providing basic first aid and health-care advice, scheduling appointments, and contacting immediate family or health authorities in case of emergencies.

### PawnPusher

C++

A fully functional chess engine with human and computer modes, involving a graphical display, a history of moves played, and four levels of computer AI that analyse and rank possible opponent moves.

### Mathrix

HTML5, CSS3, Python, Bootstrap, Polymer

A website for performing common matrix operations. Added material design styles and matrix functions.

### TuneMe

Swift

An iOS app that allows users to record audio and apply sound filters, as a way to learn Swift & MVC architecture.

## AWARDS

- **President's Scholarship, Fall 2014** — awarded to students with a strong academic record.
- **International Indian School Topper for Grade XII examination, March 2014** - Final Grade: 96.4%