

# Arshia Mufti

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## 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

### WeMesh

Kitchener, Canada

Backend Web Developer

Jan 2016-present

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

### Waseel

Riyadh, Saudi Arabia

Agile Software Engineer Intern

May 2015-June 2015

- Designed a native iOS application in Swift aimed at providing users the ability to access real-time data about hospitals, insurance companies, and medical services based on their location in the city.
- Implemented: HTTP networking in Alamofire using class extensions · Location services features using MapKit · Table Views · Parsing JSON and XML · Improved fuzzy search feature

### Waterloo Women in Computer Science Undergraduate Committee

Waterloo, Canada

Chair

May 2016-present

- Publicly represented the committee to external groups and university clubs.
- Secured funds for the committee, led weekly meetings, and helped create the semester budget.

## SKILLS AND INTERESTS

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

## 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 healthcare 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

Designed and built a website with a classmate for performing common matrix operations relevant to our Linear Algebra coursework. Added CSS, Polymer (material design) styles, and matrix functions.

### TuneMe

Swift

An iOS app that allows users to record audio and play it back with applied sound filters, in accordance with the Model-view-controller (MVC) model, as a way to self-learn Swift & iOS application development.

## AWARDS

- **WiCS Scholarship for the Grace Hopper Celebration of Women in Computing, September 2015**
- **President's Scholarship, Fall 2014** — awarded to students with a strong academic record.
- **International Indian School Topper, March 2014** — ranked first in Central Board of Secondary Education (CBSE) grade XII examination in Riyadh, Saudi Arabia · Cumulative Average: 96.4%