

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 videos feed created from different content sources.
- Added backend video support for Vimeo videos · 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

Director of Finance

September 2015-present

- Secured external funding for the WiCS undergraduate committee in collaboration with the Chair.
- Represented WiCS financially by proposing the semester budget, and maintaining financial records.

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%