

# Arshia Mufti

2A Honours Computer Science, University of Waterloo  
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## SKILLS AND INTERESTS

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- Strongly interested in algorithms, performance improvement, the theory and application of functional languages, and using them to implement large scale web applications.
- Experience with Scheme, Swift and C++.
- Familiar with HTML5/CSS3, Python, Google App Engine, MySQL, Java, and Scala.
- Comfortable with Xcode, Bootstrap,  $\LaTeX$ , and jinja2.

## EXPERIENCE

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### Waseel

*Agile Software Engineer Intern*

**Riyadh, Saudi Arabia**

*May 2015-June 2015*

- Designed a native iOS app in Swift aimed at providing users the ability to avail the services of their insurance companies and access hospital-related data based on their location in the city.
- Implemented: HTTP requests in Alamofire using class extensions · Location services features using MapKit · Table Views · Parsing JSON and XML · Improved fuzzy search feature · UI/UX design in Sketch
- Worked on backend—implemented RESTful web service using a glassfish server.

### Waterloo Women in Computer Science Undergraduate Committee

*Director of Finance*

**Waterloo, Canada**

*September 2015-present*

- Secured external funding for the WiCS undergraduate committee in collaboration with the Chair.
- Represented WiCS financially by attending Math Faculty Budget meetings, allocating funds, and maintaining financial records.

## EDUCATION

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### Univeristy of Waterloo

Candidate for Bachelor of Computer Science, Honours · Expected August 2019 · Term Average: 86.4%

**Waterloo, Canada**

- **Designing Functional Programs (advanced)** — Designed an interpreter for a Scheme-like language in DrRacket. Abstract Data Types · Sorting · Treaps · Trees
- **Elementary Algorithm Design & Data Abstraction (advanced)** — Designed an assembler and compiler for a C-like language. Memoization · ARM architecture · Continuations

### Massive Open Online Courses

**Udacity**

- *UIKit Fundamentals* with Gabrielle Miller-Messner and Jason Schatz
- *Web Development* with Steve Huffman

## PROJECTS

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### Mathrix

*HTML5, CSS3, Python, Bootstrap*

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

### TuneMe

*Swift*

Designed 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

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- **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%
- **Best Speaker, October 2013** — awarded in the annual Riyadh Inter-school Debate Competition.