

# Irfan Sharif

irfansharif.com  
i4sharif@uwaterloo.ca | 647-834-9461

## SKILLS

### PROGRAMMING

Experienced in:

C • C++ • C# • Java • Python  
Ruby • JavaScript • Node.js  
BASH •  $\text{\LaTeX}$  • HTML/CSS • XML

Familiar:

Matlab • MySQL • MongoDB  
Angular.js • Ruby on Rails • VHDL • R

### TOOLS

Android Studio • Visual Studio • Eclipse  
Git • SVN • SQL Workbench • TeamCity  
ElasticSearch • ASP.NET • Auth0 • Parse  
LibGDX • Unity • Asana • Jira

## EDUCATION

### UNIVERSITY OF WATERLOO

#### BSC IN ELECTRICAL ENGINEERING

Expected May 2019 | Waterloo, ON

##### Coursework

Algorithms & Data Structures  
Digital Computers  
Design with Embedded Systems  
Digital Circuits and Systems  
Discrete Mathematics  
Fundamentals of Programming

##### Coursework (Online)

Programming Abstractions (*Stanford*)  
Software as a Service (*UC Berkeley*)  
Artificial Intelligence (*UC Berkeley*)  
Cum. GPA: 3.92 / 4.0  
Major GPA: N/A

### ST. MARY'S CATHOLIC HIGH

Grad. May 2014 | Dubai, UAE

## AWARDS

Presidential Scholarship of Academic  
Distinction (*98<sup>th</sup> percentile*)  
Oxford Inter-School Intelligentsia (*1<sup>st</sup> Place*)  
Dean's Merit List Awardee (*95<sup>th</sup> percentile*)

## LINKS

Github:// [irfansharif](#)  
LinkedIn:// [irfanmahmoudsharif](#)  
StackOverflow:// [irfan-sharif](#)  
Quora:// [irfan-sharif-2](#)

## SUMMARY

- Familiar with test-driven and agile development.
- Worked with .NET's Moq and Mocha unit testing frameworks
- Experienced at object oriented, declarative, and functional paradigms.
- Experience with multiple Debian GNU based distros.

## EXPERIENCE

### SOLINK CORP. | SOFTWARE ENGINEERING INTERN

May 2015 – Sep 2015 | Kanata, ON

- Redesigned & built internal RESTful API architecture, migrating away from what was previously SOAP
- Migrated internal datastore from SQL to cloud hosted ElasticSearch cluster
- Integrated Auth0 with product for user management, controlled privileges and validation. Introduced custom Invite-only application structure to product
- Built integration test suite for platform by repurposing Mocha, set up build configurations on TeamCity for continuous integration

## PROJECTS

### HOW-LATE | PEBBLE TIME

Aug 2015 – Sep 2015 | Embedded Systems Lab, Waterloo

- Google App integrated with Calendar API displaying time relative to next class, using Google Maps geo-location API to notify how late you are
- OAuth 2.0 authentication procedure to itemize events from private calendars

### NAVIGATR | ANDROID PROJECT

Jan 2015 – April 2015 | Embedded Systems Lab, Waterloo

- Used in-built mobile accelerometers/gyroscopes detecting & logging footsteps using finite-state machine theory
- Combined sensor readings tracking user's position on a model of school campus
- Implemented a path-finding algorithm guiding user to pre-set destination

### DODGE! | ANDROID PROJECT

May 2015 – Jul 2015 | Kanata, Ottawa

- Used LibGDX to build classic avoider style gameplay, soundtrack built to accent every move
- Multi-level game design with increasing difficulty of enemy AI

### ROOMFINDR | WEB PROJECT

Feb 2015 – Mar 2015 | EngHack '15, Waterloo

- Utility for finding empty classrooms to study in at the uWaterloo scraping Waterloo OpenAPI for course offerings
- Developed using HTML/CSS/Bootstrap, Python under Django framework with SQLite for backend

### UWATERLOO NANOROBOTICS | ROBOTICS

Sept 2014 – Aug 2015 | Waterloo, ON

- Implementation of microelectromechanical system design navigating a nanolitre fluid droplet on a silicon substrate patterned into an interdigitated transducer.