# Irfan Sharif

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# SKILLS

### **PROGRAMMING**

Experienced in:

C • C++ • C# • Java • Python Ruby • JavaScript • Node.js BASH • LATEX • HTML/CSS • XML Familiar:

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

#### **TOOLS**

Android Studio • Visual Studio • Eclipse Git • SVN • SQL Workbench • TeamCity ElasticSearch • ASP.NET • AuthO • 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 (95th 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 Mog 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 AuthO 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**

#### INDOORS NAVIGATION APP | 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 Al

### **STUDY ROOM FINDER** | 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 om a silicon substrate patterned into an interdigitated transducer.