

Irfan Sharif

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SKILLS

PROGRAMMING

Experienced in:

C • C++ • C# • Java • Python
Ruby on Rails • JavaScript • Node.js
L^AT_EX • HTML/CSS • XML

Familiar:

Angular.js • MySQL • MongoDB
Matlab • BASH • VHDL • R

TOOLS

Android Studio • Visual Studio • Eclipse
Git • SVN • MySQL • MongoDB • Vim
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, United Arab Emirates

LINKS

Github:// [irfansharif](#)
LinkedIn:// [irfanmms](#)
Quora:// [Irfan-Sharif-2](#)

SUMMARY

- Familiar with test-driven development and agile development
- Experience with .NET's Moq and Mocha unit testing frameworks
- Proficient using Git DVCS and SVN in Linux/Windows environments.
- Experienced at object oriented, declarative, and functional paradigms

PROJECTS

INDOORS NAVIGATION APP | ANDROID PROJECT

Jan 2015 – April 2015 | Waterloo, ON

- 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, ON

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

STUDY ROOM FINDER | WEB PROJECT

Feb 2015 – Mar 2015 | Waterloo, ON

- 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

EXPERIENCE

SOLINK | SOFTWARE ENGINEERING INTERN

Expected 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 ElasticSearch cluster in the cloud
- 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 using Mocha

UWATERLOO NANOROBOTICS | ELECTRICAL ENGINEERING TEAM

Sept 2014 – Aug 2015 | Waterloo, ON

- Microelectromechanical system design for Surface Acoustic Wave team
- Implementation of robot design navigating a nanolitre fluid droplet atop a silicon substrate patterned into an interdigitated transducer.

AWARDS

2014	International	Recipient of Presidential Scholarship of Academic Distinction
2014	1 st Place	Oxford Inter-School Intelligentsia
2013	Regional	Dean's Merit List Awardee