

Irfan Sharif

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

SKILLS

PROGRAMMING

Experienced in:

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

Familiar:

Matlab • Octave • R • VHDL • Assembly
Ruby on Rails • MongoDB • MySQL

TOOLS

Android Studio • Visual Studio • Eclipse
Git • SVN • vim • SQL Workbench
ElasticSearch (NEST) • ASP.NET • Auth0
Parse • LibGDX • Unity • JIRA • TeamCity

LINKS

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

EDUCATION

UNIVERSITY OF WATERLOO

BSC IN ELECTRICAL ENGINEERING

Expected May 2019 | GPA: 3.92

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*)

AWARDS

Presidential Scholarship (*98th percentile*)
Oxford Inter-School Intelligentsia (*1st Place*)
Dean's Merit List Awardee (*95th percentile*)

ACTIVITIES/INTERESTS

uWaterloo Nanorobotics Club, uWaterloo
AppDev Club, Machine Learning & Neural
Networks, Computer Vision, Virtual
Reality, Open source projects

SUMMARY

- Experience with test-driven, behaviour-driven and agile development
- Experienced at object oriented, declarative, and functional paradigms
- Proficient using Git DVCS, SVN & multiple UNIX variants (Debian GNU/Linux)
- Open-sourced project contributions (brain, npm module for neural networks)

EXPERIENCE

SOLINK CORP. | SOFTWARE ENGINEERING INTERN

May 2015 – Sep 2015 | Kanata, ON

- Redesigned & built internal RESTful API architecture under ASP.NET Web API 2.0 standards, migrating away from formerly SOAP architecture
- Migrated internal datastore from SQL to load-balanced ElasticSearch cluster
- Integrated Auth0 with platform for user management, validation & controlled privileges. Introduced custom Invite-only user signup process
- Built integration test suite for platform repurposing Mocha, .NET's Moq unit testing frameworks (open sourced npm module, solink-js)

PROJECTS

STOCKOVERFLOW | WEB API, ANDROID APP

Sep 2015 | Hack The North, Waterloo [devpost.com/software/stockoverflow](#)

- Constructed API providing micro-investment service for Bitcoin & stock market
- Integrated PayPal API & Webhooks monitoring user transactions aggregating left-over change and investing, real-time functionality using Firebase
- Designed stock prediction algorithm using sentiment analysis to aggregated news articles using the Indico natural language processing API

HOW-LATE | PEBBLE TIME, WATCH APP

Sep 2015 | MHacks 6, Michigan [git.io/vnjPt](#)

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

NAVIGATR | ANDROID APP

April 2015 | Embedded Systems Lab, Waterloo [git.io/vnjPp](#)

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

DODGE! | ANDROID GAME

April 2015 | Personal Project, Kanata [git.io/vnjXI](#)

- Classic avoider style gameplay using LibGDX for rendering & graphics routines
- Multi-level game design, designed enemy AI using custom search algorithms

ROOMFINDR | WEB API

Feb 2015 | EngHack '15, Waterloo [studyspaceuw.com/](#)

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