Irfan Sharif

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SKILLS

PROGRAMMING

Experienced in:
C • C++ • C# • Java • Ruby
Node.js • JavaScript • Python • BASH
LaTeX • 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
CANDIDATE FOR BACHELOR OF
APPLIED SCIENCE IN HONOURS
ELECTRICAL ENGINEERING
Expected May 2019 | GPA: 3.92

Coursework
Algorithms & Data Structures
Digital Computers
Design with Embedded Systems
Digital Circuits & 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, & agile development
- Experienced at object oriented, declarative, & 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

- Designed & 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 using Mocha, .NET's Moq unit testing frameworks (open sourced npm module, solink-js)

PROJECTS

STOCKOVERFLOW | WEB API, ANDROID APP
Sep 2015 | Hack The North '16, Waterloo   devpost.com/software/stockoverflow

- Designed API providing micro-investment service for Bitcoin & stock market
- Integrated PayPal API & Webhooks to monitor user transactions & aggregate left-over change to invest, real-time functionality using Firebase
- Designed stock prediction algorithm using sentiment analysis on news article headlines using the Indico natural language processing API

HOW-LATE | PEBBLE TIME, WATCH APP
Sep 2015 | MHacks 6, Michigan   git.io/vnjPt

- Integrated with Google Calendar API displaying current time relative to the next class using geo-location to determine 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 built-in mobile accelerometers/gyroscopes to detect & log footsteps using finite-state machine theory
- Implemented a path-finding algorithm to guide user to pre-set destination

DODGE! | ANDROID GAME
April 2015 | Personal Project   git.io/vnjXl

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

ROOMFINDR | WEB API
Feb 2015 | EngHack '15, Waterloo   studyspaceuw.com/

- Utility for finding empty classrooms to study in scraping Waterloo Open API for course offerings
- Developed using Python under Django framework with SQLite for backend