

MIRAN MIRZA

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EDUCATION

Honours Bachelor of Computer Science

September 2012 - Present

Software Engineering Stream

Minor in Greek and Roman Studies

Carleton University, Ottawa, Ontario

- Fourth Year Standing, 10.5 GPA, A- equivalent
- Dean's List
- Gordon Robertson scholarship recipient
- Expected graduation date: May 2016

RELEVANT SKILLS, EXPERIENCES AND ACCOMPLISHMENTS

Technical Skills

- Proficient in: JavaScript, C, C++, Java, Scheme, Python and Ruby
- Developed a wine journal web application using JavaScript, Node.js, AngularJS, HTML, CSS and a SQLite database
- Engineered a parser utility using Python that produces an SQL script from a CSV data file
- Currently using Ruby and Sinatra to craft a simple web based MUD game
- Upgraded a Scheme interpreter to support more programming functions including various syntactic sugars and delayed special forms
- Worked with several Integrated Development Environments including Eclipse with Java to build a GUI pipe connector game and Qt Creator with C++ to build a GUI networked library management system
- Developed programs using C and C++ in various environments including Linux, OS X and Windows

Communication Skills

- Co-authored an academic paper regarding to collaboration using annotations on web applications
- Presented a TED talk on the role of technology in education the TEDxYouth@Amman 2011 conference to an audience of over 200 people.
- Addressed questions and concerns from employees at I. Nasralla & Co. on how to use new office technologies such as a cloud based server as well as remote assistance software
- Fully fluent in English and Arabic (reading, writing and speaking) as well as basic French

Leadership Skills

- Led and organised sessions to discuss the design of a library management system to produce documentation and discuss details of implementation
- Headed the Jordanian student delegation and coordinated discussions regarding societal issues faced by students with European youth at the EuroMed conference in Vienna, Austria

APPLIED PROJECTS

Developer

January 2015 – ongoing

Wine Journal Application

- Designed and developed a SQLite database to hold information about wine, users, and wineries
- Developed a web application backend and RESTful API using Node.js
- Crafted a frontend for the system using AngularJS, Bootstrap, HTML, Jade, CSS and jQuery

Developer

Library Management System (cuTPS)

- Developed networking subsystem using TCP/IP sockets and serialization using JSON
- Designed an API to enable communication between a client and server process
- Engineered a multithreaded server process using C++ and Qt to handle incoming client requests

WORK AND VOLUNTEER EXPERIENCE

Carleton University, Ottawa, Ontario

May 2015 – August 2015

Research Support Software Developer

- Co-authored and published a paper regarding “Collaborative Annotations for Large Touchscreen Displays” in the ACM Digital Library (part of PROMOTO 2015)
- Researched various academic papers in order to produce suggestions regarding how to approach the development of the lab's project
- Developed various prototypes using JavaScript, CSS, HTML, and D3 front-end framework
- Re-wrote code base to support multi-touch input and gestures using JavaScript and Interact.js

La Maison Verte Restaurant, Amman, Jordan

August 2014

Website Designer

- Discussed and implemented strategies to develop online presence with restaurant owner including social media pages and a website
- Conceptualized and implemented a website using WordPress CMS, HTML and CSS knowledge (<http://www.lamaisonverterestaurant.com>)
- Improved engagement with customers by establishing online social media presence through Facebook and TripAdvisor

I. Nasralla & Co, Amman, Jordan

June 2011 – July 2014

Information Technology Manager

- Proposed and implemented plan for migrating old ISP based email to a new cloud based Google Apps system
- Restructured and re-implemented windows based file sharing server as a cloud server to enable working from outside the office
- Designed and developed the company website (<http://www.inasralla.com>)

TEDxYouth@Amman, Amman, Jordan

August 2011

Speaker

- Presented a TED talk on the role of technology in the classroom and how technology can work to improve learning
- Demonstrated a software demo of how QR code technology can add interactivity to school publications and assignments
- Discussed the role of programming and its impact on furthering learning