Siraj Rauff

Full Stack Web Developer · Software Engineering Student

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Education & Awards

Bachelor of Engineering, Software Engineering   *Toronto, Canada*

York University   *Sep. 2012 - Apr. 2017*

- Sole recipient of the **2015-16 Royal Bank Fund** ($2500) for the Faculty of Lassonde based on academic merit (6.0+ GPA)
- **ENG 1000 (A)** Winner of 2013 Murphy's Cup. Led a team in designing and building a robot to autonomously navigate an obstacle course

Related Project

Virtual Reality Application focused on therapeutic/educational benefits to Low Mobility Users

4th Year Engineering Project (ENG 4000) - **Midterm Grade: A**   *Sep. 2015 - Apr. 2016*

- Worked as part of a team to create a virtual reality food garden to allow **low mobility** users to have an immersive gardening experience while learning about climate change resiliency, food security and healthy food choices.
- Elected Project Manager, delegated tasks, applied the **Agile Development methodology** with weekly SCRUM meetings to allow for the **iterative development** of prototypes, and verified **quality assurance**.
- Utilized **Requirements Engineering** to create requirements with consideration given to the capabilities of end users. **Researched** virtual reailty hardware options, game editors, and prepared numerous professional reports totalling over 20 pages with an average grade of A.
- Contributed extensive **programming knowledge** of C#, JavaScript and Object-Orient Design to create **re-usable generic components** to allow more plant models to easily be added later. **Designed and implemented** all player actions, including planting, watering/fertilizing and removing fauna. Implemented a 3D UI and plant aging system.
- Created working demos on **Windows, OS X and Android**, all with controller support.

Professional Experience

Full Stack Web Developer/Java and SQL Programmer   *Toronto, Canada*

Student Information Systems, UIT, York University   *Aug. 2014 - Present*

- Working as part of a team migrating staff applications from native code to web applications to allow end-users to connect without the use of virtualization software.
- Using SQL to create/modify procedures, functions, tables and reports in order to provide clients with requested information as well as automatically sort and process information received by the University.

Related Projects

Migration of Staff Applications to Web

Recreation of C++/Visual Prolog Applications in jQuery + AJAX/JSON

- Recreated a Visual Prolog program as a web application, utilizing the **jQuery framework + AJAX/JSON** in conjunction with a custom **WebObjects (Java)** framework for database access.
- Acting **Developer Consultant** including JavaScript/jQuery languages, design decisions and estimated development timelines due to extensive experience with web applications and frameworks.
- Created functions to cache AJAX requests/responses locally improving responsiveness of applications significantly.

OEN (Ontario Education Number) Web Service
Java Application to validate student information using Web Service

- Collaborated with the Ontario Ministry of Education to develop an application to verify government student data against university records. Made use of **Java + JDBC API** with **Oracle 11g** to access/store student records and **Axis2 + SOAP** to interact with web service.
- Created function to automatically retry failed validations with different combinations of student information, resulting in **>95% of students validating automatically**, saving weeks of manual validation.

GPAC
Grade Point Average Calculator

- Modified an **SQL procedure** that calculates normalized York GPAs for incoming transfer students from other institutions to deal with institutions that did not comply with formatting standards for electronic document transfers.
- Project resulted in sub-second response time and automatic handling of **99.5% of applicants in 25/26 institutions**.

Helpdesk Assistant
Client Services, UIT, York University

Toronto, Canada
Aug. 2013 - Aug. 2014

- Provided front-line support for computer, network and account management to students and faculty through phone, online chat and in person.
- Used problem solving skills and critical thinking to diagnose and fix email, software and virtualization issues with clients' computers on a variety of operating systems.

Skills

Documentation/Project Management Tools	Microsoft Office Suite/Google Docs, Atlassian FishEye/Confluence, Slack, Basecamp, TeXworks and Remedy IT Suite
Languages & Notations	C/C++, Java, CSS3/HTML5/XML, JavaScript, JSON/AJAX, Event-B, LaTeX, MIPS, Bash, SQL (Oracle 9i,11g; DB2), Verilog
Operating Systems	Linux, Windows, OS X, iOS
Frameworks	jQuery, WebObjects/Wonder
Development Tools	Android Studio, Eclipse, EiffelStudio, SQL Developer, Visual Studio, Maven, Ant
Version Control Systems	Git, CVS, SVN
Programs	Citrix Receiver, VirtualBox, PTC Creo, Unity 3D