Siraj Rauff

FULL STACK WEB DEVELOPER · SOFTWARE ENGINEERING STUDENT

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Objective

To obtain a Software Engineering position in an environment that makes use of my extensive development experience while allowing me to be exposed to new programming languages, technologies and processes.

Skills

Languages	Bash, C/C#/C++, CSS, HTML, Java, JavaScript, jQuery, JSON, JSP, LaTeX, Markdown, MIPS, SQL, Verilog, WebObjects, XML
Tools	Ant, Apache, Atlassian Jira/Fisheye/Confluence, Axis2, Docker, Grunt, JUnit, Maven, Tomcat, Unity Game Engine

Education & Awards

Bachelor of Engineering, Specialized Honours in Software Engineering

YORK UNIVERSITY

Toronto, Canada
Expected Apr. 2017

- **2016 PEO York Chapter Prize** ($1000) Engineering Capstone Project with **greatest commercial potential**. Placed second overall across all Engineering disciplines as **Project Manager**.
- **2015-16 Royal Bank Fund** ($2500) Single receipient for the Faculty of Lassonde based on academic merit (6.0+ GPA).
- **2013 Murphy's Cup** Led a team in designing and building a robot to autonomously navigate an obstacle course.

Relevant Courses	Advanced Software Engineering, Applied Cryptography, Building E-Commerce Systems, Computer Network Protocols, Control Systems, Digital Logic Design, Design and Analysis of Algorithms, Embedded Systems, Engineering Project, Mission-Critical Systems, Operating System Design, Software Engineering Testing, System Specification and Refinement

Professional Experience

Computer Programmer (Java, jQuery, SQL, Bootstrap, Linux)

STUDENT INFORMATION SYSTEMS, UIT, YORK UNIVERSITY

Toronto, Canada
Aug. 2014 - Present

- Working as part of a team converting staff applications from **C++/Visual Prolog** to **jQuery web applications**.
- Made use of **Java + JDBC**, **SOAP**, and **Axis2** to automate validation of student data with government webservice.
- Introduced team to **git-svn** integration, and helped to **migrate svn repositories to git**.
- Using **SQL** to create/modify procedures, functions, tables and reports.
- Modify and maintain open-source **jQuery plugins/libraries** adjusted for use with in-house web applications.
- Converted XML Student Information System website into responsive mobile-friendly website using **Bootstrap**.

Helpdesk Assistant (Customer Service, IT)

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.

Related Projects

Migration of Staff Applications to Web *(Apache, Ant, jQuery, Java, JSON, SQL)*   *Student Information Systems*
RECREATION OF C++/VISUAL PROLOG APPLICATIONS IN JQUERY   *Mar. 2015 - Present*

- Recreated Visual Prolog program in **jQuery**. Created **JSON** feeds and **SQL procedures** for CRUD using **WebObjects** server and **Oracle 11g** database. Created **AJAX caching mechanism** to improve application responsivness significantly.
- Helped automate code conversion of **C++** programs to MVC **jQuery** web applications.
- Made use of, and **contributed to, Google Closure Compiler**.

Student Information Systems Website *(Bootstrap, jQuery, JSON, SQL, XML)*   *Student Information Systems*
MOBILE-FRIENDLY RECREATION OF XML-BASED WEBSITE   *Nov. 2016 - Dec. 2016*

- Recreated XML-based Student Information Systems website, into a **Twitter Bootstrap**-based responsive website.
- Stored application directory data in database for easy maintenance across production and development environments. Loaded data through **jQuery & Ajax**, using statically generated **JSON** as fallback measure.

Engineering Capstone Project *(C#, JavaScript, Project Management, Unity)*   *ENG 4000 -* **Grade: A**
THERAPEUTIC/EDUCATIONAL VIRTUAL REALITY APPLICATION FOR LOW MOBILITY USERS   *Sep. 2015 - Apr. 2016*

- Elected Project Manager, delegated tasks, applied **Agile Development methodology** with weekly **SCRUM meetings** and **iterative development** of prototypes. Prepared numerous reports totalling 60+ pages with *an average grade of A*.
- Used **C#, JavaScript** and **Unity Engine API** to design and implement **VR-friendly UI**, as well as all player actions.
- Created **Oculus Rift & Google Cardboard** demos on **Windows, macOS** and **Android**, all with controller support.

Mom and Pop Books *(Bootstrap, Docker, jQuery, JSON, JSP, SQL, Tomcat)*   *EECS 4413 -* **Grade: B+**
FUNCTIONAL ONLINE STOREFRONT IN DOCKER CONTAINERS   *Sep. 2015 - Dec. 2015*

- Created online storefront in **Bootstrap** with the ability to view, search, filter, and add reviews for books utilizing **JSP (Tomcat)** and **MySQL** deployed using **Docker** containers.
- Used **Sessions** to allow for registration, login, cart and purchase functionality, as well as **access control** for regular visitors, administrators and partners (sellers).
- Made use of **Filters & Listeners** to track views, purchases and searches, compiled into administrator reports. Created **SOAP** and **REST** entry points to allow partners to programatically search the store.

OEN (Ontario Education Number) Web Service *(Axis2/SOAP, Java + JDBC, SQL)*   *Student Information Systems*
JAVA APPLICATION TO VALIDATE STUDENT INFORMATION USING WEB SERVICE   *Jan. 2015 - Mar. 2015*

- Developed a **Java** application to systematically verify government student data against university data.
- Implemented functionality to intelligently retry failed validations with different combinations of student information, resulting in *>95% of students validating automatically*.

GPAC - Grade Point Average Calculator *(SQL)*   *Student Information Systems*
MODIFICATION OF SQL PROCEDURE TO INCREASE ROBUSTNESS   *Oct. 2014 - Dec. 2014*

- Modified an **SQL procedure** that calculates normalized York GPAs, to handle institutions that do 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**.