



Mustaqeem Khowaja

3A Software Engineering | mustaqeemk.com | mustaqeem.khowaja@uwaterloo.ca

Skills

Languages:	Java, C, C++, C#, Python, JavaScript, SQL, Assembly
Frameworks:	Android, AngularJS, Express.js, Node.js, jQuery, SAPUI5
Tools:	Git, SVN, P4, JUnit, Coverity, Jenkins, Adobe Photoshop and Illustrator

Experience

SAP — Software Developer

Waterloo, Ontario, Canada — August 2015 to December 2015

- Worked on TARS, a solution with a [distributed](#) architecture which can be used offline
- Full-stack development using [SAPUI5](#) (a JavaScript framework built on [jQuery](#)), and [SQL Anywhere \(RDBMS\)](#)
- Implemented a [responsive](#) web form for EHS Incident Reporting
- Developed Item Search for Retail, allowing users to search, view details and order items from their [mobile](#) device
- Wrote complex [queries](#) and [stored procedures](#) to store and aggregate data across multiple datasets
- Innovated a new approach to [validation](#) which reduced complexity of code in controller classes

NCR Corporation — Software Development Intern

Waterloo, Ontario, Canada — January 2015 to April 2015

- Utilized [Java](#), [JSP](#) and [MySQL](#) to implement form data verification, two factor authentication, CSRF prevention etc.
- Fixed [performance](#) issues by analyzing code base and improving [database](#) queries
- Wrote Unit Tests for all committed code in [JUnit](#) and used [Coverity](#) to ensure >90% coverage
- Utilized collaborative and issue tracking tools such as JIRA, Confluence, Crucible, Jenkins and SVN

Symcor Inc. — Application Developer

Mississauga, Ontario, Canada — May 2014 to August 2014

- Created a web app using [Java EE](#) which generated images and input data for the archive system
- Added user authentication to an internal tools suite and stored user data and permissions using [PostgreSQL](#)
- Wrote perceptual diff tool in [Groovy](#) to generate comparison reports in visually pleasant [webpages](#)
- Rewrote entire regression test library in [SoapUI](#) to use the tool I wrote, converting weeks of test effort into minutes

Projects

I.C.U. — PrincetonHacks

Princeton University — November 2015

<http://devpost.com/software/icubot>



- Developed the [Node.js](#) server hosted on [Microsoft Azure](#) which sends tweets when an intruder is detected
- Implemented intruder detection using [Microsoft Kinect](#) and used multiple threads to handle audio, HTTP requests and camera data
- Winner of the [Best Microsoft Hack](#)

Sage — BostonHacks

Boston University — October 2015

<http://devpost.com/software/sage>



- Developed the [Android](#) app; made a custom list adapter to display messages, and used multi-threading to send messages to a [Django](#) server hosted on [Amazon Web Services](#)
- Leveraged [Microsoft LUIS](#) to perform NLP and accurately respond to user requests
- Winner of the [Best Amazon Hack](#) and [Best Wolfram Hack](#)

Education

Bachelor of Software Engineering — University of Waterloo

Waterloo, Ontario, Canada — September 2013 to Present

- 3.7 GPA in most recent term