Mustaqeem Khowaja

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

Skills

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

Internships

BitTitan — Software Design Engineer
Kirkland, Washington, United States — May 2016 to August 2016

- Designed a workflow that interacts with and gathers data from various **CRM APIs**
- Utilised **producer/consumer** pattern to improve **performance** of file scanning by 50%
- Researched **Azure APIs** to see what data could be extracted and wrote a detailed report
- Based on feedback on the report, implemented a feature to retrieve **Azure VM Instance and metrics** data
- Designed and implemented a module to **detect legacy data** on a device

SAP SE — 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

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
- Reduced **regression testing** effort by 95% by developing a **perceptual diff** tool which generates visually pleasant comparison reports

Projects

I.C.U. — HackPrinceton (Best Microsoft Hack)
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
- Detects intruders using **Kinect** and uses multi-threading to handle audio, HTTP requests and camera data

Sage — BostonHacks (Best Amazon and Wolfram Hack)
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

Education

Bachelor of Software Engineering — University of Waterloo
Waterloo, Ontario, Canada — September 2013 to Present

- GPA: 3.83/4.00 in most recent term – Placed on **Dean's Honours List**