

RICHARD DANIEL MURPHY

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Website: <http://rdanielmurphy.com> Github: <https://github.com/rdanielmurphy>

Educational Background

Towson University 2006-2009 (Graduated magna cum laude in May 2009)

Major: Computer Science (CAC/ABET Accredited)

Minor: Mathematics

GPA: 3.55

Knowledge/Skills/Qualifications

- Java, C, C++, C++.Net, C#.Net, Javascript, PHP, Groovy, and Python.
- Databases such as MongoDB, MySQL, SQLite, and Neo4J.
- Experience developing for Windows, Linux, Web, and Android platforms.
- Object-Oriented Design.
- Source code management with Subversion and Git.
- Proficient in Angular.js, Node.js, Express.js, Java Fx, Java Swing, WPF, and Android UI.

Professional Experience

Information Management Services, Inc.

Silver Spring, MD

Software Developer (May 2009 - March 2014)

- Contributed code for a PHP web application for analyzing cancer statistics.
- Developed application in C++.NET that read cancer records and displayed them in a grid view.
- Maintained an application written in C which calculated lung cancer risks.
- Updated C++ and Java versions of software which cancer registries use to edit cancer records. Worked with XML, Groovy, and Jasper Reports for the Java implementation. Wrote unit tests with JUnit to test the code.
- Designed and developed a Java program for searching a drug database. Used the Lucene library for searching and Swing for the interface.
- Designed and developed a Java Swing program to create Groovy scripts and test them.
- Added threading to a C++ program that calculates best fit lines for data using the threading library in the new C++11 standard library.

Ringtail Design, Ltd

Rosslyn, VA

UX Developer (March 2014 - June 2015)

- Contributed code to an Android app that communicated with a NodeJS server via MQTT.
- Worked on a C#.Net geospatial and temporal desktop application. Added ability to create military graphics on the globe. Added visualizations of globe data in line graphs.
- Developed a web app using NodeJS, ExpressJS, Neo4j, Angular, D3, and ThreeJS. Used ThreeJS for the geospatial view and D3 for the node/relationship view.

Research Experience

Undergraduate Research Assistant at Towson University (2008-2009)

Worked with Dr. Darush Davani and graduate students in the Towson University robotics lab. Started in September of 2008. Worked on undergraduate research project on team robotics and multi-modal communication between robots using vision and speech. It involved using C++.Net and C#.Net to develop speech recognition and image processing capabilities for the pioneer robot platform so that it can communicate with other pioneer robots and robots of other platforms.

Other Experience

- Android

I have created many Android applications, two are on the Google Play Marketplace. I won an award for an app I made for SBA that is used to find loans, grants, and tax incentives for small businesses using publicly available government data. A lot of the code for these applications can be found in my Github account. Also have developed apps for Android using Phonegap.

Awards

- Dean's List (2008-2009)
- Won 2nd place in an mobile app contest run by SBA in 2011 (SBA loans app)