

# Sean Mulholland

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## Education:

B.S. Computer Science, Oregon State University – Corvallis, OR – August 2016 **GPA: 4.0**

B.S. Physics, University of Washington – Seattle, WA – March 2010

## Skills:

Programming Languages: C, C++, JavaScript, Java, Python, HTML, CSS, PHP, MASM

Tools & Software: Git, MongoDB, Node.js, MySQL, JUnit, Android Studio, Eclipse, Visual Studio

## Notable Projects:

Gladiator Styled N-Curses Endless Runner Game (C/C++)

- Implemented a two-tier server for handling incoming requests, assigning and creating game servers, and child process management
- Implemented multi-threaded asynchronous I/O in the client
- Lead the testing, and refactoring of the graphics engine code

Media Sharing App (Java/Android, MongoDB, Node.js/Express/Express-Handlebars)

- Designed and implemented a RESTful JSON API served via a Node.js webserver that communicates with a MongoDB backend
- Worked in Android Studio to create a front-end utilizing Google's Volley library for requests

One Time Pad Encryption/Decryption Servers (C)

- Implemented a pair of encryption/decryption servers and associated client programs
- Implemented a key generating utility to generate unique, randomized keys

C++ Wrapper Library for Socket Creation (C++)

- Designed and implemented a simplified C++ socket library interface
- Maintained and updated the library over a 9 month period to meet evolving needs

## Work Experience:

Sr. Radiation Safety Technician, Fred Hutchinson Cancer Research Center – February 2015 – Present

- Designs MySQL queries and utilizes Report Application Pascal to auto-generate legal records and forms
- Automated organizational tasks using PowerShell scripting
- Established new workflow to integrate Surface Pro 4's, reducing paper usage by 75%

Peer Tutor, Oregon State University – January 2016 – August 2016

- Provided tutelage for core computer science concepts via various social media platforms
- Reviewed coursework and provided feedback to lecturers and professors

Radiological Controls Technician, Department of the Navy – August 2010 – January 2015

- Trained over 25 people in the creation of technical drawings and professional records
- Selected on 4 occasions for high-priority work and specialized maintenance in Japan