

# Joseph D Smith

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## Education

University of Washington

Bachelor of Science in Physics, concentration in Computer Science

Expected Graduation: June 2015

GPA: 3.45

Related Coursework:

Algorithms & Computational Complexity

Data Structures & Algorithms

Computer Systems

Programming Languages and Implementation

Web Programming

Linear Algebra

Database Systems

Object Oriented Programming

## Technical Skills

- Proficient in: Java, Ruby, Python, Racket
- Experience with: SQL, Web Programming Languages (HTML, CSS, PHP, JavaScript, XML), C, x86-64 Assembly Language, SuperCollider

## Experience

CERN Affiliated Research | Research Associate | January 2014 - Present

Developed a script to remotely control a function generator.

Current project: Working on software to control a pixel detector through a digital read out system (i.e. DAQ or Data Acquisition system).

Requires: Ability to understand and explain difficult technical concepts to people of different skill levels and backgrounds; Usage of Linux; Python programming; Ability to learn new technical skills quickly

## Projects

Space Glove

April 2015

Created an Android app and web page that is a proof of concept wearable device for astronauts.

Done with a 3 person team for the NASA affiliated 2015 SpaceApps hackathon. The project won the Seattle division and moved on the international portion of the competition.

<https://github.com/josephdoughs/Space-Glove>

Nutrition Project

December 2014

Designed and produced a fully functional user interface and back end to track and calculate nutrition information including daily calorie intake and exercise. Stores information in a relational database to measure and display the user's progress. Uses Python and SQL. Currently in progress.

<https://github.com/josephdoughs/Sustenance>

Six Degrees of Kevin Bacon

May 2013

Implemented a website that allows users to play a modified version of the "Six Degrees of Kevin Bacon" game. Users may type in the name of an actor and see what movies they are in as well as what movies they were in with Kevin Bacon. Used SQL, PHP, HTML, and CSS.