Jeremy Silver

575 S Rengstorff Ave. Apt # 77
Mountain View, CA. 94040
(503)-502-2958

jeremysilvertongue@gmail.com
github.com/jeremysilvertongue
linkedin.com/in/jeremysilvertongue

Reed College BA, Physics. Portland, Oregon.   **May 2011**

– Thesis on the use of numerical differential equation solving and genetic algorithms to simulate and optimize human movement.
– Projects included measuring the temperature dependence of diode reverse bias leakage current, improvised synthesis of fullerenes using a welding power supply, and creation of an interactive computer model simulating the interaction and collision of charged particles.

Course Developer Udacity Inc. Mountain View, California.   **February 2015–Present**

– Created *Gradle for Android and Java*, an online course with over 15,000 enrolled students, and part of the Android Nanodegree built in partnership with Google.
– Instructor of *2D Game Development with LibGDX* and *How to Make a Platformer Using LibGDX*, part of the Game Development Nanodegree built with Amazon.

Course Manager Udacity Inc. Mountain View, California.   **April 2014–February 2015**

– Mentored students in numerous courses including *Intro to Data Science*, *Developing Android Apps*, *Software Architecture and Design*, and *Intro to Hadoop and MapReduce*.
– Led testing and quality assurance of *Intro to Machine Learning*, *Data Visualization*, and *Model Building and Validation*.

Hardware Laboratory Intern Allion USA, Portland, Oregon.   **January 2014–April 2014**

– Built stages of a machine vision pipeline for real-time processing of high speed camera output.
– Invented a class of ternary/n-ary codes with desirable Hamming distance properties.

Scientific Applications Intern Apple Inc. Portland, Oregon.   **June 2011–August 2013**

– Developed novel algorithms with the Advanced Computation Group in the fields of sound compression, image compression, image enhancement, machine vision, and error correction coding.
– Created 3D scanning and printing laboratory and wrote tools for interactive markup of 3D meshes.
– Coinvented, prototyped, and wrote patent documentation for a novel image magnification algorithm. Collaborated on a real-time OpenCL implementation of the algorithm.

Requalification Supervisor Reed Research Reactor, Portland, Oregon.   **May 2010–May 2011**

– Created and administered written and practical exams to the staff, gave training and requalification lectures, and founded an enrichment lecture series.

Senior Reactor Operator Reed Research Reactor, Portland, Oregon.   **August 2009–May 2011**

– Performed and supervised reactor power changes, calibrated radiation monitors, and performed neutron activation analysis experiments.
– Participated in control rod and fuel inspections, thermal power calibration, and refueling operations. Organized and performed recovery of a dropped fuel element.

Skills

– Python, Java, C, C++, Objective-C, Swift, SQL, HTML, CSS, and JavaScript.
– Android, Google AppEngine, Polymer, OpenGL/CL/CV, LibGDX, SKLearn, and NLTK.
– Git, Mercurial, Gradle, Mathematica, MATLAB, LabVIEW, and LaTeX.