# Jeremy Silver

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#### Course Developer Udacity Inc. Mountain View, California.

#### February 2015-January 2017

- Created online courses that attracted tens of thousands of enrolled students. Responsible for all stages
  of course creation: outlining, scripting, creating sample code and exercises, and finally appearing on
  camera and screencasts.
- Instructor of Gradle for Android and Java, 2D Game Development with libGDX, and How to Make a Platformer Using libGDX. Contributed scripts and sample code to Developing Android Apps and Android Basics: Networking, made in partnership with Google.
- Developed a sample code delivery system that allows instructors to create and maintain an idealized
   Git history for students to follow along with.
- Completed five Nanodegrees as a Udacity student, including the Android Developer Nanodegree and the Maching Learning Engineer Nanodegree.

#### 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.

## Senior Reactor Operator Reed Research Reactor, Portland, Oregon.

## August 2009–May 2011

- As Requalification Supervisor, created and administered written and practical exams to the staff, gave training and requalification lectures, and founded an enrichment lecture series.
- Performed and supervised reactor power changes, control rod and fuel inspections, thermal power calibration, refueling operations, and neutron activation analysis experiments.

#### 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.

#### Skills

- Python, Java, C, C++, Objective-C, Swift, SQL, Haskell, HTML, CSS, and JavaScript.
- Android, Google AppEngine, Polymer, OpenGL, OpenCL, OpenCV, libGDX, SKLearn, and NLTK.
- Git, Mercurial, Gradle, Mathematica, MATLAB, LabVIEW, and LATEX.