Jeremy Silver

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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.
- Course work in calculus, linear and abstract algebra, scientific computation, electrodynamics, elementary particles, as well as classical, quantum, thermal, and solid-state physics.
- 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 UD867: Gradle for Android and Java, an online course with over 10,000 enrolled students.
- Built a forthcoming Java game development course in partnership 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 Developing Scalable Apps in Java.
- Lead testing and quality assurance on 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, Objective-C, with C, C++, Swift, SQL, HTML, CSS, and JavaScript.
- Android, Google AppEngine, Polymer, OpenGL/CL/CV, LibGDX, SKLearn, and SceneKit.
- Git, Mercurial, Gradle, Mathematica, MATLAB, LabVIEW, and IATEX.