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.
- Laboratory work in electronics, optics, kinematics, electromagnetism, and machine tooling.
- 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, CA. **February 2015–Present**

- Created UD867: Gradle for Android and Java, an online course with over 10,000 enrolled students.
- Building a forthcoming Java game development course in partnership with Amazon.

Course Manager Udacity Inc. Mountain View, CA. **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 QA on Intro to Machine Learning, Data Visualization, and Model Building and Validation.

Hardware Lab 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 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 lab 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. **September 2007–June 2011**

- Created and administered written and practical exams to the staff, gave training and requalification lectures, and founded an enrichment lecture series.
- As a licensed Senior Reactor Operator: 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, and Objective-C. Familiar with C, C++, Swift, HTML, CSS, and JavaScript.
- Android, Google AppEngine, OpenGL/CL/CV, LibGDX, and SceneKit.
- Git, Mercurial, Gradle, Mathematica, MATLAB, LabVIEW, and LaTeX.