ADRIAN WAN

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I leverage Physics and Code to learn about and explain more of the world.

EDUCATION

Swarthmore College Swarthmore, PA ● B.A. Physics & Computer Science, expected June 2015
Cumulative GPA: 3.91 ● Selected coursework:

Physics: Quantum Theory · Independent Research (Lab. Plasma) · Analytical Dynamics ·
Electrodynamics · Thermodynamics & Stat. Mechanics · Optics · Quantum Mechanics

Computer Science: Cloud Systems & Data Networks[1] · Databases · Operating Systems ·
A.I. · Bioinformatics · Intro. Computer Systems · Data Structures & Algorithms

[1] Fall 2014 coursework

EXPERIENCE

Nest (Summer 2014)
Algorithm Design & Data Science Intern

★ Spearheaded Python prototyping of data-driven user product:

· Developed, implemented, and evaluated mathematical models of real-world data,
becoming highly proficient with the open-source `Pandas` data analysis library

· Employed test-driven development to publish an extensible object-oriented modeling
package, used within team for prototyping related features

· Balanced code development with research-style exploration of results and data

★ Used Agile software development principles to meet ambitious schedules through
coordination with UI/UX, cloud services, apps, and product marketing teams.

Swarthmore Spheromak Experiment (SSX) (Summer – Fall 2013)
Research Assistant

★ Received the Vandervelde-Cheung Scholarship for summer research in Physics; was invited
to return during subsequent academic semester to continue research for academic credit.

★ Developed Python scripts employing the `SciPy` library to identify and analyze features
using techniques in Plasma Physics literature.

★ Received the Outstanding Undergraduate Poster Award for poster presentation at the APS
Division of Plasma Physics 2013 Meeting.

★ Coauthored papers published in *Physical Review Letters* and in *Plasma Physics and
Controlled Fusion*.

Details, Publications, and other Experiences listed on LinkedIn.

SKILLS

Technological Proficiency
★ *Software Development:* Python 2.7 (with `PyLab`, `Pandas`), C, C++, Atlassian stack (Git)
★ *Presentation:* LaTeX, Mathematica, Keynote, Microsoft Office Suite, Final Cut Pro &
Soundtrack Pro (film & multimedia)