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: 3.9 • Selected coursework:

Physics: General Relativity[1] · Statistical Physics[1] · Quantum Theory · Independent Research (Lab. Plasma) · Analytical Dynamics · Electrodynamics · Thermodynamics & Stat. Mechanics · Optics · Quantum Mechanics

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

[1] Spring 2015 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)