adrian **wan**

algorithms design engineer @ Nest

contact

adrianwan2@gmail.com
(610)-505-5087

awan1.github.io
lnked.in/awan
github.com/awan1

languages

trilingual English, Cantonese, Mandarin
fluent Japanese
beginner French, ASL

programming

♥ Python (`pandas, SciPy`)
♥ Git
Atlassian Stack (Stash, JIRA)

interests

I develop **extensible and flexible analysis tools** to produce actionable, robust, **data-driven insights**.

education

2011-2015 **B.A.** Physics & Computer Science — Swarthmore College, Swarthmore PA
Cumu. GPA: 3.9 · *Phi Beta Kappa*

Physics: Statistical Physics · Quantum Theory · Analytical Dynamics · Electrodynamics · Thermodynamics & Stat. Mechanics
CS: Intro. Programming Languages · Algorithms · Cloud Systems & Data Networks · Databases · Operating Systems · A.I. · Bioinformatics

experience

2015–Present **Nest** — *Algorithm Design Engineer*

· Hi

2014 **Nest** — Algorithm Design & Data Science Intern

· Spearheaded Python prototyping of data-driven user product:
  – Developed, implemented, and evaluated mathematical models of on-device sensor 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.

2013–2014 **Swarthmore Spheromak Experiment (SSX)** — Research Assistant

· Received the **Vandervelde-Cheung Scholarship** for Physics summer research.
· Developed Python scripts employing the `SciPy` library to identify and analyze plasma wind-tunnel data.
· 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*.

for more

Publications and more experiences are on my personal website and on LinkedIn.