AMANDINE LEE

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EDUCATION

Swarthmore College, Swarthmore PA — June 2013

Bachelor of the Arts in Physics, minor in Statistics. GPA: 3.5

Hacker School, New York NY — June - Aug 2013

Self-directed, project-oriented coding retreat for programmers of all skill levels.

EXPERIENCE

Juniper Networks, San Francisco CA

Software Engineer II — Oct 2013 - present

- Worked with a team of ~10 engineers on backend Python code for cloud-based network security products. Contributed to projects including a multithreaded module to wrap malware analysis engines and a configuration management API.
- Improved testing workflow and code quality using Jenkins by integrating existing unit tests, writing additional functional tests, and automatically generating Sphinx documentation.
- Automated deployment to development and production systems, writing flexible Ansible scripts usable against both Vagrant and complex AWS systems. Wrote an Ansible Postgres plugin to execute SQL files against RDS.
- Collaborated with a coworker to build two internal dashboards to monitor product performance, one using the Tornado server framework, Twitter Bootstrap and HighCharts, and one using the ElasticSearch/Logstash/Kibana stack.

Swarthmore College Physics Department, Swarthmore PA

Undergraduate Researcher — June 2012 – Oct 2012

- Worked with Professor Amy Graves in collaboration with the University of Pennsylvania Liu Group on 2-D simulations of granular dynamics.
- Developed a complete simulation in Java using the Easy Java Simulations visualization tool to test the relationship between jamming and contact matrices. Began taking experimental data.

Science Associate/Tutor/Grader — Sept – Dec 2011, Sept 2012 – June 2013

- Led weekly evening help sessions of 10 – 30 students and worked one-on-one with specific struggling students in introductory Physics and Astronomy courses. Worked with both non-physical sciences students and potential majors.

University of Michigan Biophysics REU, Ann Arbor MI

Undergraduate Researcher — June 2011 – Aug 2011

- Performed experiments in the Veatch Group on vesicles of cell membrane, generated from animal cells, to test the ordering and phase transition of lipids in heterogeneous bilayers.

OTHER

- **TEALS volunteer** (Oct 2014 – present) Planned lessons, prepared lectures, assisted students, and graded for an Introduction to Computer Science class at Mission High School.
- **Interests** Natural language (Arabic, Japanese), international politics, rock climbing, music.