Ellen Liu

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EDUCATION

Swarthmore College | B.A. Computer Science and Psychology | GPA: 3.3   **Expected Graduation: May 2019**
Relevant Coursework: Data Structures & Algorithms, Intro to Computer Systems, Artificial Intelligence, Discrete Math, Computer Networks, Adaptive Robotics, Operating Systems, Bioinformatics, Algorithms (*in progress*), Systems Security (*in progress*)

WORK EXPERIENCE

Software Engineer Intern – Platform Team – PagerDuty (San Francisco, CA)   **Jun 2018 – Aug 2018**
Tools/Technologies: Ember.js, Elixir, Ruby on Rails, Kafka
- Delivered new pricing and packaging infrastructure to improve the way PagerDuty is sold, including:
  - A microservice which allows PagerDuty development teams to package up a product for sale
  - In-app purchasing experience for customers to reduce operational pain related to buying products
- Created monitors and alerts using DataDog and PagerDuty to identify any issues with the microservices

Data Engineer Intern – PagerDuty (San Francisco, CA)   **May 2017 – Aug 2017**
Tools/Technologies: Redshift, Airflow, Ruby, Python, SQL
- Built foundation of data warehouse and deployed data analytics job which provided the foundation of a business health analytics feature
- The feature served as a basis for the implementation of the Operations Health Management Service, which has helped customers significantly improve their company health for better service and happier employees
- Introduced a Slack bot to foster connections across offices and teams; the company-wide initiative has since been successful in integrating new hires and keeping offices in touch with each other

Computer Science Tutor and Grader (Swarthmore, PA)   **Jan 2017 – Present**
- Provide one-on-one tutoring for students needing extra preparation in assignments and assessments
- Trained to tutor for the intro computer science course and the data structures and algorithms course
- Grade 30+ weekly coding assignments for introductory courses

LEADERSHIP/VOLUNTEERING EXPERIENCE

Women (+) in Computer Science - President   **Dec 2017 – Present**
- Build a community within the department for those who identify as female and other underrepresented genders in the computer science field
- Coordinate weekly interview prep sessions for internships and full-time positions in tech
- Manage event planning from small-scale to large-scale study breaks and workshops and speaker events
- Communicate regularly with other student organizations, faculty, and community members

Student Academic Mentor   **Aug 2015 - Present**
- Developed a 4-year course planning tool for students to plan their desired academic goals
- Hold regular one-on-one meetings with 20+ first-year students to help them develop skills such as time management, organization, and studying and reading techniques
- Serve as an academic advisor and peer leader to those in own residence hall and across campus

GROUPS/ORGANIZATIONS

Rewriting the Code Fellowship   **Jun 2018 – Present**
- Year-long program designed to complement a student's academics and offer opportunities for coaching, educational programming, and industry exploration

Swarthmore College Computer Society   **Jan 2017 – Present**
- Develop and maintain services for students such as a student database, course scheduler, and mailing lists

Swarthmore College Music Dept.   **Dec 2017 – Present**
- Play piano for the college orchestra and a chamber music group