

# Alan Guo

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## Proficiencies:



Javascript Frameworks:  
ReactJS + Redux  
NodeJS + npm

## Relevant Coursework:

15-112, Fundamentals of  
Programming

15-122, Principles of  
Imperative Programming

15-213, Introduction to  
Computer Systems

17-437, Web Application  
Development

15-539, Computer Science  
Pedagogy

Carnegie Mellon University, incomplete  
B.S. in Materials Science and Engineering, Minor in Computer Science

Phillips Exeter Academy, graduated June 2014

## Experience

Software Engineering Intern, Etsy.com June 2019 - Current  
Core Buyer, External Landings Team

Software Engineering Intern, Honey Science Corporation Jan 2019 - May. 2019  
Core Systems

- Automated GCP table and pubsub topic creation for two data pipelines
- Wrote an automated JSONSchema linter using CircleCI, NodeJS and ESLint
- Contributed to internal package management upgrade scripts
- Refactored tooling across repositories for code uniformity and manageability
- Completed manual dependency upgrade and deploy file cleanup sweeps

Software Development Engineer Intern, Amazon.com May 2018 - Aug. 2018  
Amazon Web Services (AWS) Builder Tools, Shared Code Curation Team

- Built a Python metrics app to monitor blast radius of code dependencies
- Aggregated metrics relevant to health of the internal shared code repository
- Warehoused data from three internal APIs in AWS S3 and AWS Glue
- Internally exposed data via a UI built with AWS Athena and AWS Quicksight

15-112 Teaching Assistant, Carnegie Mellon University Jan. 2017 - Dec. 2017

- Teach beginner and intermediate programming fundamentals in Python
- Rapidly debug and troubleshoot student code in office hours
- Teach, manage, and supervise 30-student section recitation

Research Assistant, Morphing Matter Lab, CMU HCII Sept. 2017 - March 2018

- Studied and developed shape-memory transformative textile systems
- Pitched in-lab project to design a full fashion line for Lunar Gala 2018

Computer Science Teaching Assistant, SAMS CMU July 2017 - Aug. 2017

- Oversaw and taught two 60-person sections of underprivileged students

## Creative Work

Student Designer, Lunar Gala 2018

- Conceptualized and sketched a 10-look portfolio for a February 2018 show
- Finalized a line showcasing the potential of transformative textiles in fashion
- Fabricated and researched novel shape-memory textile production methods

## Projects

Frontend Developer, CMU CS Academy, 15-539: CS Pedagogy

- Used React.js and Redux.js to develop frontend interface for student learning
- Integrated Vimeo API into React and Redux to create a quizzing component
- Established content video production workflow and editing techniques

Texas Hold'em, 15-112: Fundamentals of Programming Term Project

- Created a fully-functional, poker AI and 1-player game in Python in one week