

# Andy Xiao

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## Education

### University of Pennsylvania

Philadelphia, PA

B.S.E. in Computer Science, GPA: 3.79/4.00

May 2022

- **Minors:** Statistics [Wharton] & Engineering Entrepreneurship
- **Coursework:** Computer Graphics\*, Advanced Functional Programming\*, Big Data Analytics, Algorithms, Databases, Software Engineering, Computer Architecture, Probability

## Experience

### CIS 197 - JavaScript

(Remote) Philadelphia, PA

Teaching Assistant

Aug 2020 - Present

- Student taught minicourse focused on teaching modern JavaScript; Covers Node.js, Express, React, Redux, React Native, and server side rendering
- Host weekly office hours; grade JavaScript programming assignments

### LinkedIn

(Remote) Sunnyvale, CA

UI Engineer Intern

May 2020 - Aug 2020

- Led the frontend development of a new insight card feature on LinkedIn's Sales Navigator homepage
- Aimed to drive deeper user engagement on the homepage by providing insightful and actionable information to the user
- Ember.js, JavaScript

### CIS 502 - Analysis of Algorithms

Philadelphia, PA

Teaching Assistant

Jan 2019 - May 2020

- Graduate level algorithms course of 120 students; covers greedy algorithms, dynamic programming, graph traversals, max flow, NP-completeness, and approximation algorithms
- Hosted weekly office hours; graded homeworks and exams

### Multifamily Asset Managers

Bethesda, MD

Software Engineering Intern

May 2019 - Aug 2019

- Architected multiple property management pages along with CRUD REST APIs in React and .NET
- Created an advanced form builder component in React, greatly increasing development speed and maintainability
- Converted pages from jQuery to React and refactored backend to fetch data more efficiently, decreasing page load times by more than half
- React, JavaScript, .NET, C#, SQL

### University of Pennsylvania

Philadelphia, PA

Web Developer

Apr 2019 - Jan 2020

- Developed and designed an interactive course selection web app called "Pathways" for Penn's History Department
- Worked with another developer to build out full functionality, including a Pinterest style layout, filtering animations, a course visualization network, and site walkthrough capabilities
- React, Redux, JavaScript

## Projects

### Pathways

[pathways.history.upenn.edu](https://pathways.history.upenn.edu)

React | Redux

- Pathways is a full-fledged course selection web app developed for Penn's History department intended for Penn students
- Built site from scratch using React with aforementioned features, ensuring cross browser and mobile support

### Shared Paper

[github.com/shared-paper](https://github.com/shared-paper)

React Native | Node.js | Socket.io | MongoDB

- Shared Paper is a note taking app developed at Bitcamp 2019 which allows multiple users to take notes together in real time
- Architected entire React Native mobile app with full featured drawing canvas, users support, and document sharing
- Spearheaded group of 4 developers to integrate mobile app with backend, using Socket.io for real time updates

### Penn Course Scheduler

[github.com/penn-course-scheduler](https://github.com/penn-course-scheduler)

React | Node.js

- Penn Course Scheduler is web app that allows Penn students to see all possible schedules for the courses they want to take
- Implemented Node.js API to perform a depth first search traversal and return all valid schedules without overlap
- Created minimalistic UI to search and display schedules with React

## Skills

- **Languages:** JavaScript, Python, Java, C/C++, C#, R, HTML/CSS
- **Technologies:** Ember.js, React, Node.js, Flask, .NET, Pandas, Spark, MongoDB, SQL, Git