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

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 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, aid in the development of homeworks, and grade JavaScript programming assignments

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