Andy **Xiao**

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Education

University of Pennsylvania *Philadelphia, PA*

B.S.E. in Computer Science - School of Engineering, GPA: 3.67/4.00 *May 2022*

- **Minors:** Statistics [Wharton], Engineering Entrepreneurship
- **Coursework:** Algorithms, Discrete Math, JavaScript, Theory of Computation, Linear Algebra
- **Clubs:** Penn Computer Science Society (Entrepreneurship and Jobs Committee)

Experience

Early Stage Travel Startup *Rockville, MD*

Software Developer *June 2019 - Present*

- Design and create a full stack mobile app for a travel based startup as their minimum viable product.
- Currently am the main developer, overseeing implementation of all functionality on both the frontend and backend, including users, location tracking, messaging, authentication, and authorization.
- Use React Native, Flask, MongoDB, and the Google Maps API.

Multifamily Asset Managers *Bethesda, MD*

Software Developer Intern *May 2019 - Aug 2019*

- Increased functionality, speed, and security of three full stack web systems for in-house and client use.
- Implemented many new web pages and features, refactored old pages to run faster, and added additional error handling, logging, and encryption.
- Used React, C#/.NET, MSSQL, and SVN.

Penn History Department *Philadelphia, PA*

Software Developer *Apr 2019 - Present*

- Create a course visualization tool called "Pathways" to help Penn students choose which history course they should take.
- Communicate with professors and another developer to build the course visualization website.
- Use React, Redux, D3.js, and Git.

Koros *Philadelphia, PA*

Software Developer *Oct 2018 - March 2019*

- Worked closely with and learned from the founders of a home entertainment startup, assisting in the implementation of their mobile app.
- Built the login/registration pipeline with login and signup screens and utilized Google's Vision API to authenticate pin codes read in from the phone's camera.
- Used React Native, Node.js, and MySQL.

Projects

Shared Paper *github.com/shared-paper*

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

- Spearheaded development of note taking app for Bitcamp 2019, which allows multiple users on different devices to simultaneously take notes on same "paper".
- Features include users, login/signup, joining and deleting papers, multiple drawing options, and real time updates after a stroke in both the database and other users' screens.

Penn Course Scheduler *github.com/penn-course-scheduler*

React | Node.js

- Designed and developed a web app that allows Penn students to type in the courses they want to take and see all possible schedules with those courses. Currently hosted with Heroku.
- The server parses through course times and performs a depth first search traversal to retrieve all schedules that include all the courses and recitations without overlap.

Pathways *github.com/pathways*

React | Redux | D3.js

- A course visualization tool for Penn's History Department that lets students see related courses categorized into "pathways".
- Users can view all of the courses in a network visualization and select courses to learn more about them. More forms of visualization are in development, including a timeline to see where courses fit in a historical context.

Skills

- **Languages:** JavaScript, Java, Python, C#, HTML/CSS
- **Technologies:** React, React Native, Redux, Node.js, Flask, .NET, MongoDB, SQL, Git