

Andy Xiao

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Education

University of Pennsylvania — School of Engineering & Applied Science	Philadelphia, PA
Bachelor of Science in Engineering (BSE) in Computer Science	May 2022
○ <u>Minors</u> : Statistics [Wharton] & Engineering Entrepreneurship	3.67/4.00
○ <u>Coursework</u> : Algorithms, Computer Architecture, Discrete Math, Theory of Computation, Linear Algebra, Probability	
○ <u>Clubs</u> : Penn Computer Science Society (Sponsorship and Jobs Committee)	
Thomas S. Wootton High School	Rockville, MD
○ <u>Honors</u> : National AP Scholar, Governor's Merit Scholastic Award	May 2018
○ <u>Clubs</u> : Varsity Tennis Team Captain, Competitive Programming, Science Olympiad, Debate	4.00/4.00

Professional Experience

Multifamily Asset Managers , Software Engineering Intern, Bethesda, MD	May 2019 – August 2019
○ Architected multiple property management features along with CRUD REST API in React and .NET	
○ Created 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 , Web Developer, Philadelphia, PA	April 2019 – Present
○ Develop and design an interactive course selection web app called "Pathways" for Penn's History Department	
○ Work 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, D3.js	
Early Stage Travel Startup , Software Engineer, Remote	June 2019 – Present
○ Technical design and implementation of a full stack mobile app as our minimum viable product	
○ Lead developer on a team of three, developing a majority of the frontend and entirety of the backend REST API, implementing features including users, location tracking, and messaging	
○ Python, Flask, React Native, Javascript, MongoDB	
Koros , Software Engineer, Philadelphia, PA	October 2018 – March 2019
○ Assisted development of mobile app for home entertainment startup	
○ Built the login/registration pipeline with Node.js and React Native	
○ Developed pin code authenticator using the phone's camera and Google's Vision API	
○ React Native, Node.js, SQL	

Projects

Pathways github.com/andyxiao1/pathways
○ Pathways is a full-fledged course selection web app developed for Penn's History department intended for Penn students
○ Building site from scratch using React with aforementioned features, ensuring cross browser and mobile support
Shared Paper github.com/andyxiao1/shared-paper
○ 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/andyxiao1/penn-course-scheduler
○ 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, HTML, CSS
- **Technologies**: React, Redux, Node.js, Flask, .NET, SQL, MongoDB, Git