

# Albert Xing

(302) 668-3143 | axing@mit.edu | 8 E Periwinkle Ln, Newark, DE 19711

## Education

### Massachusetts Institute of Technology

Cambridge, MA

CANDIDATE FOR B.S. IN COMPUTER SCIENCE AND ENGINEERING | GPA: 5.0/5.0

May 2024 (Expected)

*Relevant coursework:* Elements of Software Construction, Design and Analysis of Algorithms, Artificial Intelligence, Machine Learning, Fundamentals of Programming, Interconnected Embedded Systems, Computation Structures.

### The Charter School of Wilmington

Wilmington, DE

B.S. IN COMPUTER SCIENCE AND ENGINEERING | GPA: 4.6/4.0

Aug. 2016 - Jun. 2020

*Clubs:* Co-Founder of Go Club, Founder of Learn to Code, Entrepreneurship Club, Student President in Science Olympiad, Chess Club.

## Experience

### Simplify Jobs

Remote and New York, NY

FULL STACK DEVELOPER INTERN

Jun. 2021 - Aug. 2021

- Employee #5. Actively participated in board/company meetings, contributed to product design meetings, helped plan company trajectory.
- Designed and implemented features for production in Chrome, Firefox, and Opera browser extensions, such as AI powered text auto generation.
- Augmented website security by implementing JWT refresh tokens for improved authorization and UX.
- Constructed novel front-end features using cutting-edge libraries such as Next.js and Tailwind CSS.
- Implemented and tested FastAPI powered RESTful API endpoints and CRUD functions using SQLAlchemy.
- Interfaced with PostgreSQL, Datastore, and wrote job board scrapers using Puppeteer run via Google Cloud Functions.

### Touchdown Space Reservations

Cambridge, MA

CO-CREATOR

Feb. 2021 - May 2021

- Created a social platform for study space reservations and live occupancy detection using microcontrollers and handpicked hardware.
- Led front-end development: coordinated tasks and responsibilities, helped teammates debug, organized discussions, etc.
- Designed and implemented HTML/CSS/JavaScript powered social platform front-end. Created responsive dashboard/home page, friends dashboard, log in page, and built UI templates for teammates to use. Built token-based authentication system from scratch and designed API.

### Web Lab (Yearly Web Programming Competition at MIT)

Cambridge, MA

TREASURER AND STUDENT COMPETITOR

Jan. 2021 - Present

- Designed budgets and ensured suitable funding alongside the sponsor chair. Handled receipt, disbursement, and protection/custody of funds.
- Led team of 3 in designing and building a fully-fledged study planning/scheduling website from scratch with a special focus on MIT students.
- Coordinated responsibility designation. Organized team discussions and helped shore up teammates' understanding of concepts.
- Spearheaded development of React front-end, Express.js back-end, and integration of a database using MongoDB for persistent storage of custom study plans and user accounts.

### MIT MechE Alliance Industry Connected Cohort

Cambridge, MA

STUDENT RESEARCHER

Oct. 2020 - Feb. 2021

- Conducted an industry connected research internship lying at the intersection of Mechanical Engineering, Machine Learning, and Biometrics.
- Researched implementations of in-home radar technology that unobtrusively measure biometrics such as respiration, heart rate, gait patterns.
- Worked in conjunction with and with mentorship from engineers from an international industry leader in residential construction.

### University of Delaware

Newark, DE

STUDENT RESEARCHER

Jun. 2019 - Nov. 2019

- Designed and executed a research project investigating lattice relaxation and solid state interdiffusion in a Au/Pt superlattice.
- Collected experimental data using X-Ray Diffraction techniques and constructed numerical simulations and genetic algorithms for data analysis.

## Skills

<b>Programming</b>	Python, Javascript, TypeScript, Node.js, Java, C/C++, Bash, MATLAB
<b>Web &amp; Database</b>	HTML, CSS, SQL, SQLAlchemy, SQLite, MongoDB, Datastore, Firestore, GCP Cloud Functions
<b>Frameworks</b>	ReactJS, Next.js, Tailwind CSS, Express.js, Semantic UI, FastAPI, Puppeteer, Phoenix
<b>Tech</b>	Git, Docker, Postman, VSCode, PyCharm, Eclipse, Arduino, LaTeX, MS Office, SolidWorks
<b>Interests</b>	Entrepreneurship, Tennis, Soccer, Go, Chess, Violin, Saxophone,

## Honors & Awards

- 2018-20 **Platinum Division**, USA Computing Olympiad
- 2020 **Semifinalist**, Regeneron Science Talent Search
- 2019 **Silver Medalist**, USA Physics Olympiad