

# JOHN XU

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## EDUCATION

### Duke University

*B.S. in Computer Science & Minor in Finance*

**Aug 2022 – May 2026**

Durham, NC

- **GPA:** 4.00/4.00
- **Extracurriculars:** Melissa and Doug Entrepreneurship Fellow, Scale and Coin pre-professional Society Tech Chair, The Cube - Duke's selective entrepreneurship living group
- **Relevant Coursework:** Data Structures and Algorithms, Computer Architecture, Linear Algebra, Introduction to Probability

### Bellarmino College Preparatory

*Valedictorian*

**Aug 2018 – May 2022**

San Jose, CA

- **GPA:** 4.47/4.0 | **SAT:** 1590/1600

## WORK EXPERIENCE

### Fidelity Investments

*Full Stack Engineering Intern*

**June 2023 – Present**

Durham, NC

- Designed and implemented knowledge graph to store and relate more than 30k of Fidelity's digital assets (APIs, SDKs, apps, etc.) using Neo4j
- Created REST api that allowed other developers to interact with the DB using FastAPI with endpoints ranging from basic CRUD operations to advanced querying
- Developed data cleaning algorithms in Python that fixed over 2k broken rows within existing databases
- Built frontend visualization of the database with ReactJS

### Focal LLC

*Co-Founder*

**Sept 2020 – Aug 2022**

San Jose, CA

- Developed backend online data storage using Firebase and Google Analytics for Focal, a centralized productivity platform
- Designed and built task manager front-end with Figma and Flutter
- Managed finances through creating spreadsheets and ledgers
- Garnered over 18k downloads on iOS app store/Google Play store

### Moonshot Jr.

*Project Intern*

**Jun 2020 – April 2021**

San Jose, CA

- Collaborated with professionals to design an interactive online course on Arduino and introductory robotics for children
- Recorded twelve 45-minute course videos
- Spearheaded marketing campaign for the course, instituting referral programs, promotional videos, and social media posts
- Reached students in 4 countries and earned \$5k revenue in total

## PROJECTS

### Alleviate Health

*Developer*

**Feb 2023 – Present**

- Wireframed and built website frontend for Alleviate Health, a platform that allows for seamless HSA/FSA shopping, using Figma, NextJS, and Chakra UI
- Created web-scraping program with Axios and BeautifulSoup that scrapes Walmart, CVS, Walgreens, and other large vendors for HSA product Listings
- Integrated with Hayha Bots to create internal e-commerce shopping engine that allowed users to make orders without navigating to external services

### Meditune

*Developer*

**Aug 2019 – May 2022**

- Designed and built frontend using Flutter/Dart for Meditune, an app that provides affordable notched sound therapy and tinnitus retraining for tinnitus patients
- Created audio-notching algorithm that filtered out specific sound frequency ranges out of mp3 files using FEmpeg
- Cold-called local doctors and EMTs to establish distribution networks for beta testing

## SKILLS AND INTERESTS

- **Languages:** Python, Java, HTML/CSS, Javascript, Dart
- **Frameworks/Libraries:** React (Next.js), Node, Flutter, Tailwind, ChakraUI, FastAPI, Pytest
- **Databases:** SQL, Firebase, MongoDB, Neo4j, Cypher
- **Design:** Adobe Illustrator, Figma, Maya