JOHN XU

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EDUCATION

Duke University
Aug 2022 – May 2026
B.S. in Computer Science & Minor in Finance
Durham, NC
- **GPA:** 4.00/4.00
- **Extracurriculars:** Melissa and Doug Entrepreneurship Fellow, Scale and Coin pre-professional Society Tech Chair, The Cube New Member Educator - Duke's selective entrepreneurship living group
- **Relevant Coursework:** Data Structures and Algorithms, Computer Architecture, Linear Algebra, Introduction to Probability

Bellarmine College Preparatory
Aug 2018 – May 2022
High school diploma
San Jose, CA
- **GPA:** 4.47/4.0 | **SAT:** 1590/1600
- **Honors:** Valedictorian, Original Oratory Speech CA State Champion, National Personal Finance Challenge Top 3

WORK EXPERIENCE

Fidelity Investments
June 2023 – Aug 2023
Full Stack Development Intern
Durham, NC
- Designed and implemented a knowledge graph of more than 55k digital assets at Fidelity (APIs, SDKs, apps, etc.) using Neo4j graph DB
- Optimized performance by decreasing data storage space by 17% and reducing average search query time from an average of 1.5s to less than 200 ms
- Created REST api that allowed other developers to interact with the DB using FastAPI with endpoints ranging from basic CRUD operations to advanced querying
- Built chatbot that dynamically generates database queries based on user inquiries and converted query results to natural language using GPT4All

Focal LLC
Sept 2020 – Aug 2022
Co-Founder
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
- Garnered over 18k downloads on iOS app store/Google Play store

Moonshot Jr.
Jun 2020 – April 2021
Project Intern
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
Feb 2023 – Present
Developer
- 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

Meditune
Feb 2022 – August 2022
Developer
- 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, HTML/CSS, Javascript, Typescript, Java, Dart
- **Frameworks/Libraries:** ReactJS (Next.js), Node.js, Flutter, Tailwind, ChakraUI, FastAPI, Flask
- **Databases:** SQL, Firebase, MongoDB, Neo4j, Cypher
- **Design:** Figma, Adobe Illustrator