

# James Xiao

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**Frameworks & Languages:** Python, Java, Javascript, React/Node.js, Go, C, OpenCV, Numpy, SQL, HTML, CSS

## EDUCATION

**Boston University**, Boston, MA

May 2025

B.A. in Computer Science, GPA 3.5

Expected May 2025

**Key Courses:** DS & Algo, Geometric Algorithms, Computer Systems, Spark! Innovation Program, Concepts of Programming Languages, Databases, Computer Networks, Data Science Tools & Applications

**Organizations:** BostonHacks, BU Spark!, Phi Chi Theta

**Awards:** Boston Hacks Track Winner (Fall 2021)

## EXPERIENCE

**Raytheon Technologies**

May 2023 – August 2023

Software Development Intern

Waltham, MA

- Developed end-to-end internal tool with **Next.js** that allows Raytheon's employees to **query, compare** and **store** various **IAM** statistics across **100+** federated domains for purpose of internal **SSO integration** and **maintenance**.
- Implemented **parallel API** requests, **batches**, and local **cache** to refactor existing SiteMinder **data aggregation methods**, resulting in significant performance increases for accessing **1000+** domain metadata.
- Collaborated with cross functional teams to onboard internal apps and troubleshoot registered apps.

**BU Spark! X-Lab**

February 2023 – May 2023

SWE Intern

Boston, MA

- Utilized **Python**, **CKAN**, and **RESTFUL APIs** to build and maintain a repo to do comprehensive **CRUD** operations on **80+** internal datasets, allowing stakeholders to **automate** client-facing **data uploading**.
- Conducted weekly code reviews and implemented feedback and documentation to maintain repo integrity.
- Proactively developed test cases within **Docker** environment to **identify** and **resolve** roadblocks from prior semester's team that **prevented successful HTTP requests** to **CKAN** instances.

**BU Spark! Innovation Fellowship**

February 2023– August 2023

Software Developer, Scrum Leader

Boston, MA

- Developed a full-stack web application with a team of five using **React**, **Firebase**, and **Scrum** methodology that addresses stigmatized topics within women's health by educating users through the aggregation of relevant articles, concise summaries, and resources onto a personalized dashboard.
- Led cross-functional Agile teams in the successful planning, execution, and delivery Stake The Stigma, fostering a culture of collaboration, continuous improvement, and on-time delivery through backlog refinement, sprint planning, and effective stakeholder communication.
- Retrieved and summarized articles from user queries, populating new articles into Firebase by writing and running **scripts** that leverage **Google's Custom Search API** and **OpenAI**.

## PROJECTS

**P{AI}TIENT**

June 2023 – June 2023

- De-identifying patient medical records using **safe harboring methods**. Uses **React**, **ChatGPT**, and **DiffChecker**. Placed 15th out of 200 submitted projects at CalHacks 2023.

**ARTCENTER**

- Built and deployed with **Heroku**, an interactive **MERN** stack web-app for showcasing upwards of **2,000** designs by creative visionary Ben Ma.
- Utilized **Cloudinary** with backend logic to optimize dynamic image fetching which improved rendering time by **60%**.

## LEADERSHIP

**Boston Hacks**

Head of Logistics

January 2022 – Present | Boston, MA

- Strategized on acquiring workspaces and managed \$800 in prizes for MiniHacks 2022.
- Facilitated a \$40,000 budget to organize venues, themes, and tracks for up to 300 attendees for BostonHacks 2022.