

# Sydney Bao

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## EDUCATION

### Northeastern University

Boston, MA

*Bachelor of Science in Computer Science and Design*

*September 2023 – Present*

#### Relevant Coursework

- Database Design
- Foundations of Software Engineering (graduate course)
- Projects in Cloud Computing at **AWS Skills Center**
- Discrete Structures
- Prototyping with Code
- Algorithms
- Object-Oriented Design

## TECHNICAL SKILLS

**Languages:** Java, Kotlin, Python, SQL, JavaScript, HTML/CSS, TypeScript

**Frameworks/Libraries:** React, React Native, Node.js, Next.js, JUnit, Selenium, Cloud Computing, REST API

**Tools:** Git, Docker, Datagrip, Firebase, Amazon Web Services, XCode, MongoDB, MySQL, Visual Studio, CAD, Figma

**Project Management:** Microsoft Office, wireframes, storyboards, Unified Modeling Language diagrams, Atlassian Jira

**Operating systems:** Windows, Linux, macOS, iOS, Android

## EXPERIENCE

### Software Engineering Fellow

July 2024 – Present

*Headstarter AI*

- Program **5 AI projects** utilizing **Pinecone, OpenAI API, Gemini API, and embeddings**
- Learned how to reach **1,000+ users** by analyzing and leveraging user and site traffic data

### Mobile Engineer Intern

May 2024 – Present

*Popper.Social*

*Corona, California*

- Increased engagement time by **500%** by enhancing the **user experience design** of the Market and Event screens
- Implemented deal categories and a delete account feature for **500+ users** and **20+ businesses** by integrating **React Native** on the frontend with **Firebase** on the backend
- Increased daily active users by **30%** by fixing **10 bugs** through XCode and TestFlight testing and implementing a **CI/CD pipeline** to efficiently incorporate feedback from supervisors and the team

### Director of Software Development

May 2024 – Present

*Northeastern University's Entrepreneurs Club*

*Boston, MA*

- Implement an account function that collects demographic and interest data from **2,000+ active members**, tailoring **60+ events**—including CEO speakers and skill-based workshops—to match our members' preferences
- Program a chatbot using **machine learning** and **retrieval-augmented generation** to direct **20+ ventures** to funding and branding resources catered to their project and demographics

### Coding Instructor

January 2022 – July 2024

*theCoderSchool*

*San Mateo, CA*

- Received referrals from **3 parents**, recognizing my communication skills to make complex concepts approachable
- **Coding Student** (2014 - 2023): Placed **3rd** at the Coder Games against **4,500 other students** nationwide

## PROJECTS

### Flashcard SaaS | *Stripe, Clerk, Firebase, Next.js, OpenAI API*

July 2024 – Present

- Generative artificial intelligence flashcards that build a baseline in STEM for preschool and elementary students
- Partnering with Northeastern Jumpstart and **3 preschools** to research and understand how children learn best
- **Research Justice at the Intersections Scholar:** **1 of 3 students** recognized for their research on making technology more accessible to marginalized communities

### Headshot News | [headshotnews.com](https://headshotnews.com) | *React, HTML/CSS, JavaScript, Node.js, Firebase*

May 2024 – July 2024

- Designed and programmed a full-stack news aggregator, using **Firebase** to store and update the articles daily
- Web scraped **5 Esports sites** using **Puppeteer** for HTML parsing and informational retrieval
- Incorporate **A/B testing** and **user research** findings using the **Agile methodology**
- Placed **3rd** in the Northeastern Husky Startup Challenge

### Nutritional Pal | *AI-Bloks, Python, speechRecognition, Tkinter, and pyttsx3 libraries*

May 2024 – June 2024

- Experimented with **3 LLMs** and **generative AI** to answer questions about restaurants' nutrition information
- Increased the **llmware/bling-1b-0.1** model's accuracy by **50%** by refining the format of stored nutrition data
- Integrated **natural language processing** and speech recognition to process speech inputs and convert text outputs into speech, enhancing user interaction and accessibility

Questions? Ask my personal AI Assistant at [bit.ly/SydneyAI](https://bit.ly/SydneyAI)