

Sydney Bao

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EDUCATION

Northeastern University

Boston, MA

Bachelor of Science in Computer Science and Design

August 2023 – April 2026

Relevant Coursework

- Database Design
- Object-Oriented Design
- Foundations of Software Engineering (graduate course)
- Projects in Cloud Computing at AWS Skills Center
- Discrete Structures
- Prototyping with Code
- Technology and Human Values
- Human Computer Interaction
- Algorithms

TECHNICAL SKILLS

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

Frameworks/Libraries: React, React Native, Node.js, Express.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 Excel, wireframes, storyboards, Unified Modeling Language diagrams, Atlassian Jira

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

EXPERIENCE

Mobile Engineer Intern

May 2024 – Present

Popper

Corona, California

- Increasing daily active users by 30% by fixing 10 critical bugs through thorough XCode and TestFlight testing, implementing Agile and CI/CD practices, and incorporating feedback from supervisors and the team
- Created delete account feature for over 400 users using Firebase and React Native

Coding Instructor, Coding Student (since March 2014)

January 2022 – Present

theCoderSchool

San Mateo, CA

- Received referrals from 3 parents because of my effective communication skills, making complex concepts approachable and engaging
- Placed 3rd in the 2020 and 2021 Coder Games, a nationwide coding competition

Director of Software Development

May 2024 – Present

Northeastern University's Entrepreneurs Club

Boston, MA

- Analyze and leverage user and site traffic data to increase user engagement, using the agile methodology
- Program an efficient sign-in feature to collect accurate attendee data at club-hosted events and improve the operations team's budgeting system

Software Engineering Fellow

July 2024 – Present

Headstarter AI

- Develop 5 AI projects, including a Customer Support artificial intelligence system using OpenAI and an AI Rate my Professor program using Pinecone and Embeddings

PROJECTS

HeadshotNews | headshotnews.com | *React, HTML/CSS, JavaScript, Node.js, Firebase*

May 2024 – July 2024

- Design and program a full-stack news aggregator website, using Firebase to store and update the articles daily
- Web scrape 5 popular Esports sites using Puppeteer for HTML parsing and informational retrieval
- Placed 3rd in the Northeastern Husky Startup Challenge

NutritionalPal | *AI-Bloks, Python*

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 over 50% by experimenting with different configurations to store the input data
- Optimized llmware/bling-1b-0.1 model's natural language processing via Retrieval-Augmented Generation (RAG)
- Utilized the speechRecognition, Tkinter, and pyttsx3 libraries to process speech inputs and convert text outputs into speech, enhancing user interaction and accessibility

INTERESTS

Taekwondo Martial Arts

May 2008 – April 2022

Trained in bo staff, double-handed nunchucks, and sparring

- Earned 2nd-degree black belt at age 11
- Placed 2nd at the 2022 U.S. Nationals and 1st at the 2017 and 2019 California State Championships