

## CAROLYN HOA

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### ACADEMICS

Education: **Northeastern University**, Boston, MA; **Khoury College of Computer Science**

September 2023 - Present

Major: B.S. Computer Science and Design

**Expected Graduation:** Spring 2027

GPA: 3.8/4.00, Dean's List

**RELEVANT COURSEWORK:** Object Oriented Design, Algorithms and Data, Introduction to Databases, Fundamentals of Computer Science 1 and 2, Discrete Structures, Typographic Systems, Design Perspectives, Design Processes, Prototyping With Code, Designing Interactive Experiences

### RELEVANT SKILLS

- **Languages:** Java, R, SQL, HTML, CSS, JavaScript, Python, Kotlin
- **Tools:** Figma, GitHub, Unit Testing, Swing, Bootstrap, IntelliJ, Visual Studio Code, R Studio, Google Colab, Notebook, Processing, Adobe Creative Suite, Tableau

### PERSONAL AND ACADEMIC PROJECTS

**Bird Strike Aircraft Database System** (*MySQL, R*)

June 2025

- Designed and implemented a normalized relational database in MySQL to analyze aircraft bird strike incidents using synthetic datasets.
- Built logical data models and relational schemas, deployed the database on a cloud server (Aiven) for remote accessibility, and developed an ETL pipeline to load CSV data into normalized tables.
- Created R programs and notebooks to execute SQL queries and perform data analysis, demonstrating end-to-end database development from schema design through data loading and analytical reporting.

**Personal Website** (*HTML, CSS, JavaScript*) [carolynhoa.com](https://carolynhoa.com)

September 2024

- Developed a portfolio website of coding and design projects utilizing HTML, CSS, Javascript, and VSCode.

**Stock Market Simulation App** (*Java, Swing, MVC Architecture*)

June 2024

- Developed a stock market simulator with real-time portfolio management using Java, Swing, and the Alphavantage API.
- Implemented buy/sell transactions, portfolio queries, and data file operations; applied the MVC pattern and custom caching for real-time data.
- Enabled users to efficiently manage and analyze stock portfolios through a responsive graphical interface.

### EXPERIENCE

**Sentiment Feedback Data Specialist Co-op** *Boston, Massachusetts*

Jan 2025 - June 2025

- Developed interactive Tableau dashboards to visualize student sentiment, improving insights into campus experience.
- Cleaned and analyzed student feedback and campus operations data using Python and R, enhancing decision-making with actionable trends.
- Automated Reddit data extraction using Python, PRAW, and Reddit's API, generating sentiment insights.

**Scout Labs Designer** *Boston, Massachusetts*

Jan 2025 - April 2025

- Designed the framework and prototype for a website and dashboard for The Mayor's Office of New Urban Mechanics (MONUM) using Figma.

**Girls Who Code Vice President and Co-Founder** *Oakland, California*

September 2023 - April 2024

- Organized weekly study sessions, social mixer events with over 100 attendees, and wrote the script for and outreached to local women in tech for our Speakers Series events.
- Cultivated an inclusive environment for students to learn.

**PawHacks Operations Team Member** *Oakland, California*

January - March 2024

- Contributed to the successful organization and execution of PawHacks, a school hackathon event with over 100 participants.
- Assisted in writing the judging rubric, developing the event schedule, and facilitating the hackathon.

**Northeastern Experiential Entrepreneurship Space Design Assistant** *Oakland, California*

January - April 2024

- Designed a space for entrepreneurs to use on Northeastern's Oakland campus using a floor plan creator and Adobe Illustrator.
- Created floor plans for four rooms within the designated space, picked out furniture, and implemented the design.
- Designed and presented a magazine showcasing the space to the head of Experiential Entrepreneurship at Northeastern.