

Karyna Yen

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Education

Northeastern University, Khoury College of Computer Sciences, Boston, MA

Expected Graduation 2025

Candidate for Bachelor's of Science in Computer Science

GPA: 4.0/4.0

Awards: Dean's Merit Scholarship, Dean's List: Fall 2021, Spring 2022, Fall 2022
Activities: HackBeanpot Core Team, Oasis Software Development Club
Hackathon Wins: HackBeanpot (Intergalactic Inclusion Award), White Hall Hackathon (Overall Winner)
Relevant Courses: Algorithms and Data Structures, Object Oriented Design, Computer Systems, Mathematics of Data Models, Networks and Distributed Systems, Discrete Structures

Technical Skills

Languages: Java, JavaScript, TypeScript, HTML/CSS, Python, Kotlin, SQL
Tools: React.js, Git/Github, JUnit, Java Swing, Jira, Trello, Material UI, Figma, VS Code, IntelliJ
Certifications: **Google Cloud Digital Leader** (Aug 2022), **Learning React.js** (March 2022)

Experience

Software Developer Coop

Jan 2023 - June 2023

WoodMackenzie, Boston, MA

- Engineered backward-compatible features for 30+ **React.js** components to enhance platform functionality.
- Communicated with product owners to replicate, diagnose, and design solutions to production bugs.
- Performed 70+ comprehensive code reviews and browser testing to ensure code readability and identify bugs.
- Collaborated in pair programming sessions to foster knowledge sharing and accelerate development.
- Enhanced existing table exporting API functionality by modifying endpoints with **JavaScript**, **Kotlin**, and **SQL**.
- Ported custom functionality across various panels while ensuring integration with different data structures.
- Created data upload pipelines using Cloud Formation, Event Bridge, and Step Functions.
- Organized department-wide events to promote department culture and team bonding.
- Led technical and behavioral interviews for the next cycle of software development co-ops.
- Migrated backend onboarding workshop from Spring Boot to **Node.js**.

Social Outreach Organizer, Front End Developer, and Sponsor Coordinator

Apr 2022 - Present

HackBeanpot, Northeastern University, Boston, MA

- Developed Hackathon Main Site, Live Site, Application Portal, and Internal Tools.
- Conducted over 30 code reviews for style, bugs, readability, consistency, etc through GitHub.
- Architected an **agile ticket-based** workflow to design Cabin Sorting Functionality.
- Led Intro to Web Development workshops which totaled 80+ attendees.
- Responsible for outreach initiatives to increase diversity at the Hackathon event.

Teaching Assistant – Discrete Structures CS 1800

Sep 2022 - Dec 2022

Khoury College of Computer Sciences, Northeastern University, Boston, MA

- Hosted 4 office hours per week to teach fundamental concepts of Discrete Mathematics to 800+ students.
- Facilitated weekly homework grading and answered questions on forums.

Projects

Image Processor – Java, Java Swing

- Utilized Java Swing to develop a GUI-based Image Processor that can apply various transformations to images.
- Implemented Model-View-Controller paradigm and the Command design pattern.
- Employed test-driven development principles to write 3,000+ lines of unit tests.

Email Sender (HackBeanpot) – React.js, TypeScript, MongoDB, Node.js – github.com/HackBeanpot/internal-tools

- Developed bulk email sender used by 2 teams and sent out over 1,000 emails.
- Integrated *Mailgun API* for email sending, and *NextAuth* for website authentication.

Oh, Duck! – JS, CSS, HTML, Python, GitHub – github.com/v-bow/ohDuck

- Earned *Intergalactic Inclusion Award: Most impact for the Boston community* with a team of 4.
- Worked as a front-end engineer to develop a Chrome extension that replaces profanity with a duck emoji.

Interests

I've been a competitive swimmer for 10+ years. Current member of the Northeastern Swim Club and Triathlon Team. I also enjoy skiing, snowboarding, hiking, unicycling, practicing Mandarin, and teaching swimming!