

# Katherine Zeng

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## EDUCATION

**Northeastern University**, Boston, MA

*Sept. 2020 - Present*

**Khoury College of Computer Sciences**

*Expected May 2024*

*Candidate for Bachelor of Science in Computer Science and Business Administration*

*Honors:* GPA 3.67 / 4.00 – Dean's List

*Relevant Courses:* Web Development, Object-Oriented Design, Algorithms & Data, Database Design, Mobile Application Development, Networks & Distributive Systems, Programming in C++, Fundamentals of Computer Science 1 & 2, Math of Data Models

*Activities:* Women in Tech, Generate Product Development, HackBeanpot

*Interests:* Classical Chinese Dance, Piano, Badminton, Archery, Painting, Photography

## TECHNICAL SKILLS

*Languages:* Java | Python | JavaScript | TypeScript | HTML | CSS | SQL | C++

*Software/Systems:* Visual Studio Code | IntelliJ | Git | Postman | MongoDB | Jira | MySQL | Firebase | Android Studio | Microsoft SQL Server | Linux | Docker

*Frameworks:* React | Express.js | Spring Boot | Angular

## EXPERIENCE

**Software Developer** | HackBeanpot, Boston MA

*April 2023 – Present*

- Participated in weekly agile meetings and code reviews using React and TypeScript to ensure seamless hackathon experience.
- Optimized internal tools, migrated Python sorting algorithm to TypeScript, and elevated main site UI to accurately analyze 150+ hackers and engage potential sponsors.

**Software Engineer** | Generate Product Development, Boston MA

*Jan. – April 2023*

- Collaborated with cross-functional team to create mobile app that provides mental health support using TypeScript, Express.js, and React Native.
- Implemented iOS native UI components, timeseries collection, and authenticated CRUD operations within MongoDB database tracking user health data, including heart rate and daily step counts.

**Full-Stack Software Development Co-op** | Entrust Corporation, Concord MA

*July – Dec. 2022*

- Developed full-stack solutions on web applications and back-end systems, such as compromised key validation, account assignment, and record updates for salespeople.
- Utilized Java Spring Boot, JSP, Kendo UI, Angular, Microsoft SQL Server, Tomcat, and RESTful web services to build administrative tools that optimized experience for 150+ clients.
- Improved developer efficiency by fixing bugs and writing Angular documentation.
- Organized wireframe meetings, presented demos, and partnered with senior architect to discuss features and enhancements with salespeople, support representatives, PMs, and developers.

## PROJECTS

**Movie Finder** | *React, Node.js, MongoDB*

*May – June 2023*

- Collaborated with agile team to deploy movie finder web application using React, Bootstrap, Redux, Node.js, Express.js, REST APIs, and MongoDB.
- Incorporated login authentication, state management, routing, and customized viewing / editing permissions for different users.
- Ensured responsive display and connection to external movie database API.

**BGP Router** | *Python*

*Feb. 2023*

- Built client and server-side code for packet routers to propagate JSON data across a network.
- Applied routing logic, sockets, and IP address/subnet mask manipulation to navigate internet infrastructure.

**Image Processing** | *Java*

*June 2021*

- Pair-programmed interactive Java GUI application for layered image manipulation.
- Leveraged the Model, View, Controller architectural pattern to create images programmatically, import and export images, manipulate individual layers, and add image transformations.
- Implemented JUnit testing framework and object-oriented principles to ensure functionality and robustness.