

Katherine Zeng

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Availability: January – June 2024

EDUCATION

Northeastern University , Boston, MA	<i>Sept. 2020 – Present</i>
Khoury College of Computer Sciences	<i>Expected Dec. 2024</i>
<i>Candidate for Bachelor of Science in Computer Science and Business Administration</i>	
<i>Honors:</i>	GPA 3.67 / 4.00 – Dean's List
<i>Relevant Courses:</i>	Object-Oriented Design, Web Development, Software Engineering, Algorithms & Data, Database Design, Mobile Application Development, Programming in C++, Networks & Distributive Systems, Foundations of Data Science, Math of Data Models
<i>Activities:</i>	Women in Tech, Generate Product Development, HackBeanpot
<i>Interests:</i>	Classical Chinese Dance, Piano, Badminton, Archery, Painting, Photography

TECHNICAL SKILLS

<i>Languages:</i>	Java Python TypeScript JavaScript HTML CSS SQL C++
<i>Software/Systems:</i>	Visual Studio Code IntelliJ Git Postman MongoDB Jira MySQL Firebase Android Studio Microsoft SQL Server Linux Docker
<i>Frameworks:</i>	React Spring Boot Express.js Angular

EXPERIENCE

Software Engineer HackBeanpot, Boston MA	<i>April 2023 – Present</i>
<ul style="list-style-type: none">Participating 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 250+ hackers and engage potential sponsors.	
Software Engineer Generate Product Development, Boston MA	<i>Jan. – April 2023</i>
<ul style="list-style-type: none">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	<i>July – Dec. 2022</i>
<ul style="list-style-type: none">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 Exploration Hub (CineScope) <i>React, Node.js, MongoDB</i>	<i>May – July 2023</i>
<ul style="list-style-type: none">Deployed web application that displays, filters, and finds movies using React, Bootstrap, Redux, Node.js, Express.js, REST APIs, and MongoDB.Incorporated login authentication, state management, routing, and customized permissions for users.Ensured responsive view and connection to external movie database API.	
BGP Router <i>Python</i>	<i>Feb. 2023</i>
<ul style="list-style-type: none">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 <i>Java (Java Swing)</i>	<i>June 2021</i>
<ul style="list-style-type: none">Pair-programmed interactive Java GUI application centered around 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 S.O.L.I.D principles to ensure code functionality and robustness.	