

Katherine Zeng

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Availability: July – December 2023

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: Object-Oriented Design, Web Development, Algorithms & Data, Programming in C++, Database Design, Mobile Application Development, Networks & Distributive Systems, 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: Python | JavaScript | TypeScript | HTML | CSS | Java | C++ | SQL

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

Frameworks: React | Express.js | Spring Boot | Angular | Kendo UI | React Native

EXPERIENCE

Software Developer | HackBeanpot, Boston MA

April 2023 – Present

- Participating in weekly agile meetings and code reviews to improve tech stack using React and TypeScript.
- Optimized internal tools and fine-tuned sorting algorithms to ensure seamless hackathon experience and accurate analysis of 150+ hackers.

Software Engineer | Generate Product Development, Boston MA

Jan. – April 2023

- Collaborated with cross-functional team to create mobile app that pairs with wearable devices to provide mental health support using TypeScript, Express.js, and React Native.
- Implemented iOS native UI components, timeseries collection, and authenticated CRUD operations to communicate with MongoDB database.

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 and business efforts 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 2023 - Present

- 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 seamless connection to external movie database API.

Predator and Prey | *C++*

April 2022

- Built simulation using C++, representing several predators chasing after their prey under realistic conditions.
- Incorporated encapsulation/object-oriented programming and prevented memory leaks.

Image Processing | *Java (Java Swing)*

June 2021

- 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.