

Katherine Zeng

(781) 434-8675 | zeng.ka@northeastern.edu | Boston, MA 02115
linkedin.com/in/k-zeng | github.com/kzeng24 | kzeng24.github.io/PersonalWebsite
Availability: May – 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, Algorithms & Data, Programming in C++, Database Design, Mobile Application Development, Networks & Distributive Systems, Fundamentals of Computer Science 1 & 2, Discrete Structures, Math of Data Models

Activities: Women in Tech, Asian Student Union, Eon Dance, Generate Product Development

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

TECHNICAL SKILLS

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

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

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

EXPERIENCE

Software Engineer | Generate Product Development, Boston MA

Jan. – April 2023

- Collaborated with agile 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

BGP Router | Python

Feb. 2023

- Developed router that accepts and forwards JSON data to desired destination.
- Applied routing logic and IP address/subnet mask manipulation to demonstrate internet infrastructure.
- Managed API functions for managing multiple sockets.

Productivity App | Java

June 2022

- Architected Android self-care app that helps users improve focus and manage distractions while studying.
- Authenticated, stored, and updated user information in cloud database (Firebase) after login.

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.

Personal Website | HTML, CSS, JavaScript

Jan. 2022

- Designed a responsive and resizable portfolio website displaying code projects, skills, and photography.

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.