Katherine Zeng

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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 3.62 / 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. 2023 – Present*
- Collaborate with agile team to create mobile app that pairs with wearable devices to provide mental health support using TypeScript, Express.js, and React Native.
- Implement 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.