

Richard Zhao

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EDUCATION

Suffolk University - Bachelor of Science, Computer Science

Boston, MA | Sept 2019 - May 2023

Honors: Dean's List, Cum laude, Full Scholarship Student **GPA:** 3.5

Relevant coursework: *Computer Science I & II - Python/Java, Data Structures and Algorithms – Java, Computer Networks, Operating Systems, Object-Oriented Programming, Introduction to Data Science, Introduction to Databases*

SKILLS

Languages: Python, Java, C, C++, SQL, HTML, CSS, TypeScript, JavaScript, Assembly,

Frameworks and Libraries: Angular, Spring (Java), Qt (C++), Flask, Django, Tkinter, JSON, NLTK, BeautifulSoup

Knowledge of: AWS, GitHub, Linux, GUI Application, Computer Hardware

Portfolio: <https://richard-zhao132.github.io/>

CS PROJECTS

University Student Database RESTful API

- Designed and implemented a system for a university's database in the Flask Python Framework, which enables efficient CRUD (Create, Read, Update, Delete) operations on student, classes, and even teacher data. This program also facilitates querying of individual students' class data based on their unique IDs as well as a sub menu to retrieve data for all teachers, allowing for teachers and students to have quick access to their data.
- Utilized HTML and Bootstrap to create a user-friendly front-end integrated with a Python Flask-powered backend with a connection to a MySQL, simplifying the complex back-end with an easy to operate front-end interface.

Employee Management System RESTful API

- Designed a secure Employee Management System with Java Spring Boot, enabling seamless CRUD operations integrated with MySQL Database. Incorporated Spring Security for user authentication, highlighting my expertise in developing efficient and protected software solutions.

PDF Splitter/Merger Utility in Python

- Created and developed a Python utility using PyPDF2 for seamless merging of two PDF files or efficient splitting of a single PDF into two documents. Utilized direct file paths for a user-friendly experience, showcasing problem-solving and Python proficiency.

Wordle In Python

- Created a Python implementation of the popular word puzzle game, Wordle, utilizing NLTK (Natural Language ToolKit). Allowing users to play the popular puzzle game without having to wait 24 hours for a new word.

WORK EXPERIENCE

Square Tech - Computer Science and IT Training Instructor

Boston, MA | Jun 2022–May 2023

- Designed and structured comprehensive 6–12-week college-level Python courses for high school students.
- Crafted engaging slide presentations, coding simulations, and in-class exercises to facilitate effective learning.
- Devised and graded stimulating final projects, enabling students to demonstrate their acquired skills.
- Gained valuable hands-on experience in disassembling and reassembling customized gaming PCs, deepening knowledge of computer hardware and troubleshooting techniques.
- Collaborated seamlessly with Tech Networks of Boston's Network Support team to upgrade computer systems.
- Replaced computers and integrated new machines onto a local domain while installing essential software

Registry of Deed - Documentation Management Intern

Boston, MA | Jun 2021–Aug 2021

- Maintained and updated the ROD database, ensuring accuracy and precision in recorded land documents.
- Conducted proofreading of recorded land documents, identifying errors, and initiating the correction process.
- Organized and categorized unsorted Registry of Deeds documents, such as Suffolk County building plans and tax files, by label code, streamlining access and retrieval.
- Established a comprehensive library of building plans, signed deeds, and land ownership documents, expertly arranged by volume number for seamless accessibility as required