

# ZAI YANG

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## SUMMARY

Detail-oriented Computer Science student with a proven track record in web development. Spearheaded an internal website project that boosted training efficiency by 50%. Proficient in HTML5, CSS, JavaScript, Java, and Python, I leverage technical expertise and creative problem-solving to deliver impactful solutions.

## EDUCATION

**Bowdoin College**, Brunswick, Maine

**B.A.** Computer Science and Visual Arts (GPA: 3.89/4.0)

**Expected May 2027**

*Programming Coursework:* Data Structures, Algorithms, Building a Website with HTML, CSS, and JavaScript

**Watchung Hills Regional High School**, Warren, New Jersey

**June 2023**

**GPA: 3.86/4.0**

*Captain of Varsity Cross Country/Track, Orchestra*

## WORK EXPERIENCE

**Interlibrary Loan (ILL)**, Brunswick, Maine

**January 2024 – Present**

*Lending and Document Delivery Assistant / Co-Web Developer*

- Spearheaded the development of the ILL's inaugural internal website, enhancing accessibility for over 10 staff members.
- Reduced new employee training time by 50% by implementing an informative and user-centric website layout with **HTML5, CSS, Bootstrap, and JavaScript** and engaging visuals with **Adobe Illustrator**.
- Consistently deliver 100+ academic material requests per week with accuracy and efficiency by leveraging meticulous search techniques and optimized system processing.

## PROJECTS

**Personal Website:** [yangz112504.github.io/](https://yangz112504.github.io/)

**Yang Travel Agency**

- Developed a website with an interactive search feature that fetches and dynamically displays travel recommendations from a local JSON file **using HTML5, CSS, Bootstrap, and JavaScript**.
- Gained experience working with **API's** by utilizing **Promises** to manage **asynchronous HTTP requests**, enhancing **user experience** with seamless data loading and **dynamic content generation**.

**Spotify Clone**

- Replicated Spotify's **web-application interface**, focusing on closely mimicking Spotify's aesthetic and user experience.
- Gained experience developing in **HTML, CSS, and Bootstrap** for **responsive web design** and **user interface development**.

**Sudoku Solver**

- Engineered an automatic Sudoku Solver in **Java**, capable of resolving puzzles of varying sizes and complexities.
- Optimized puzzle-solving time by implementing an advanced **recursive backtracking algorithm** integrated with a stack data structure.

**Lexicon**

- Developed a versatile Lexicon application with 10+ functionalities in **Java**, enabling users to **dynamically** add, remove, search, and print words.
- Implemented advanced script functionalities, including **regex-based** word matching and a **multifaceted recursive spell-checking algorithm**.

## LEADERSHIP AND ACTIVITIES

**NCAA D3 Cross Country & Track and Field**, Brunswick, Maine

**September 2023 – Present**

- Work closely with coaches and teammates for 3 hours daily to improve my athletic performance
- Organize social programming for the team as a member of the Campus/Community/Social Committee

## TECHNICAL SKILLS

**Languages:** Python, Java, HTML5, CSS, JavaScript, Git

**Libraries / Frameworks:** Bootstrap, PyGame

**Software Development Tools:** GitHub, VSCode, IntelliJ IDEA, Eclipse, Wing

## PERSONAL

**Interests:** Basketball, Chinese culture, new tech, pop and folk music, cooking, dystopian movies, and laser tag