**Zai Yang**

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**Education**

**Bowdoin College**, Brunswick, Maine

**B.A.** Computer Science (GPA: 3.88/4.0) **Expected May 2027**

*Relevant Coursework:* Data Structures, Algorithms, Building a Website with HTML, CSS, and JavaScript, Multivariate Calculus, Linear Algebra, Computer Systems

*Upcoming Courses:* Programming with React, Node, MongoDB

**TECHNICAL SKILLS**

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

**Libraries / Frameworks:** React, React-Redux, Bootstrap, PyGame

**Software Development Tools:** GitHub, VSCode, Railway

**Other:** Adobe Illustrator, Adobe Premiere Pro

**work experience**

**Interlibrary Loan (ILL)**, Brunswick, Maine **January 2024 – January 2025**

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

* 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.
* Spearheaded the development of the ILL’s inaugural internal website, enhancing accessibility for over 10 staff members.
* 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 Plant Nursery](https://yangz112504.github.io/ecommerce-plants/)

* Developed an interactive e-commerce platform using React, with reusable components and React hooks (useState, useEffect) to dynamically manage states and render a responsive product catalog.
* Implemented robust cart functionality using Redux Toolkit, enabling global state management for instantaneous updates to cart operations.
* Optimized user experience by integrating dynamic UI updates, real-time total calculations, and intuitive navigation.

[Yang Travel Agency](https://yangz112504.github.io/yang-travel-agency/index.html)

* Engineered a scalable, RESTful API using Golang to deliver travel-related data in structured JSON responses, ensuring high performance and cross-origin compatibility through CORS configuration.
* Developed a dynamic front-end in JavaScript to fetch and render API data in real-time, enabling seamless data loading and content generation.
* Deployed the API on Railway, ensuring scalability and public accessibility, demonstrating full-stack proficiency in back-end, front-end, and deployment processes.

[Spotify Clone](https://yangz112504.github.io/spotify-clone/)

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

**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.

**Sudoku Solver**

* Implemented an automatic Sudoku Solver in Java that solves puzzles of different sizes and complexities.
* Optimized solving time by integrating an advanced recursive backtracking algorithm.

**leadership and activities**

**NCAA D3 Cross Country & Track and Field,** Brunswick, Maine **September 2023 – Present**

* Training 20 hours per week with teammates and coaches by participating in daily practices and bi-weekly competitions, demonstrating dedication and teamwork

**Personal**

**Interests:** Asian Student Alliance, basketball, science fiction movies, cooking, EDM music, gaming