

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, Foundations of 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/

[Yang Plant Nursery](#)

- 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](#)

- 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](#)

- 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