

Baowen Liu

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OBJECTIVE

My technical skills and hands-on project experience enable me to adapt quickly to dynamic work environments and deliver high-quality technical solutions. I aim to pursue a career in software or web development.

EDUCATION

The Ohio State University, Columbus, Ohio

Overall GPA (4.000 scale): 3.965

B.S. Computer Science and Engineering, May 2028

Honors: Dean's List (>3.5 GPA) 2 semester

QUALIFICATIONS

- Solid understanding of Java, HTML, MATLAB, and MySQL
- Coursework: Calculus, Fundamentals of Engineering, Physics, Statistics, Computer Science
- Software: Java, Python, MATLAB, HTML, MySQL, Microsoft Word, and Excel

WORK EXPERIENCE

Nanoshape, Inc., Columbus, Ohio

Technical Intern, October, 2025 – present

- Assisted in developing Nanoshape's modular AI and simulation framework
- Refined algorithms for agent coordination and physics modeling
- Implemented and tested modules to enhance simulation accuracy and responsiveness

SPIC INTEGRATED SMART ENERGY CO., LTD, Beijing, China

Software Engineer, May, 2025 – July, 2025; Intern

- Compiled "System Architecture Design Document" to standardize technical frameworks and module logic
- Created use case diagrams, business architecture diagrams, and system architecture diagrams to visualize system interaction flows
- Engaged in Java code development to implement logical functions of core modules

ACADEMIC ENGINEERING PROJECTS

Game Gomoku (Five in a Row) Project, September - December, 2024

- Designed a game with a promotion video as a member of a four-person team
- Utilized MATLAB to complete calculations and design
- Designed three levels of the game(three in a row, five in a row, with AI)

AI Flash Card Web Application Project, December 2024 – Present

- Designed and developed an interactive website using HTML and CSS to promote AI-powered flashcards
- Created dynamic webpage components, including navigation menus, scheduling tables, and user authentication forms

ACTIVITIES AND INTERESTS

- Active Member, OSU Audio Engineering Club, November, 2024 - present
- Active Member, OSU Buckeye AutoDrive, November, 2024 – present
 - Utilize MATLAB and Simulink to support system modeling and simulation for autonomous vehicle development
 - Work closely with the Safety Team to ensure compliance with system safety standards and risk assessments.
- My personal hobby is programming code, making websites