

Soobin Yang

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Education

The College of Wooster

May 2025

B.A. in Computer Science and Mathematics

Dean's List, 4.0 GPA

Courses: Data structures and Algorithms, Databases, Comp Networking, Algo Analysis, Theory of Comp, Lin Algebra, Adv Math Transition, Multivar Calc, Prob Theory, Stat Theory, Applied Stats

Skills

- Programming Languages: C++, Python, JavaScript, R
- Web development: HTML, CSS, Bootstrap, React.js, Node.js, MongoDB
- Other: LaTeX, UNIX, Git, Korean, Japanese, English

Experiences

AI Solutions Intern

Jan 2024 - present

Matsuo Institute

Remote

- Conducted PoC by investigating the industry and estimated 3 billion dollar market size
- Contributed to MVP development by researching 10+ relevant papers for best practice alignment
- Developed MVP by creating 100+ Lo-Fi MVPs and conducting AB test using fine-tuned llm

Research Assistant

Jan 2024 - present

The College of Wooster

Wooster, OH

- Conducted research in the field of perturbation theory within mathematics
- Reviewed and evaluated research papers relevant to probabilistic and stochastic phenomena
- Computed perturbations of various mathematical objects
- Explored deep reinforcement learning (DRL) as an effective approach in Stock Prediction Using Event-based Sentiment Analysis
- Researched machine learning papers and implemented models using Python

Projects

Browser-based Circle Game HTML, CSS, JavaScript

- Place and grow circles while avoiding collisions with the canvas edges or other circles
- Manage game interactions by utilizing event listeners for keyboard and mouse inputs
- Save the high score across session by storing game score locally in localStroage

Task Manager React

- A web-based task management tool to add, edit, delete, and sort tasks
- Managed state of the tasks within application using Redux to handle complex state changes
- Added drag and drop functionality to reorder tasks using the react-beautiful-dnd library

Full-stack QA webapp React, Node.js, MongoDB

- Enables users to post and see answers to random questions from other users
- Handle user requests and manage data using RESTful API through Express.js and MongoDB
- Authenticates users by encrypting passwords in bcrypt and using jsonwebtoken for secure access

Full-stack BookStore webapp React, Node.js, MongoDB, Bootstrap, Jest

- Users can explore and save books to their personal library, and view details about each book
- Access to a vast library of books using the Google Books API
- Ensured the functionality of the backend by implementing test cases using Jest

Activities

Competitive Programming

Aug 2020 - present

- 4th in Supercomputing Contest 2021(Tokyo Tech), 18th in PC koushien Qualifiers 2020(UoAizu)