

Soobin Yang

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Education

B.A. in Computer Science and Math, The College of Wooster - 3.9 GPA Aug 2022 - May 2025

Experience

Software Developer Intern, Omniscience Strategies - San Jose, CA May 2024 - present

- Developed a demo product through the full agile software development life cycle. Contributed to frontend, backend, infra, and DevOps tasks using JavaScript, Python, SQL, Docker, AWS, and Terraform.
- Integrated login and chat feature in chrome extension version of the product by utilizing REST API and Firebase authentication. Avoiding pulling external libraries to follow manifest v3's policy.
- Led migration from Weaviate to pgvector on postgresql to reduce code complexity and lower the AWS cost by 30%. Migrated 10k+ data entries from Weaviate to pgvector with 0% data loss.
- Automated AWS deployment using Terraform and Docker, reduced deployment time by 30%. Enhanced security by making server connections private and retrieving keys from AWS Secret.
- Designed a testing pipeline that runs when code is pushed, made 50+ test cases and boosted test coverage by 20%. Created server status monitoring shell script, covering 80% of the API endpoints.

Web Designer, The College of Wooster - Wooster, OH Apr 2024

- Refactored the college's photography website using HTML, CSS, and JavaScript. Developed photo categorization feature for managing 150+ photos, and improved UI/UX based on user feedback.
- Optimized performance with lazy loading and code splitting, reducing page load time by 40%.

CS Research Assistant, The College of Wooster - Remote Jan - May 2024

- Documented 30+ papers on increasing the performance of large language models in tabular data.
- Found methods from existing research to improve accuracy by 20% using RAG and CoT technique.

Activities

Competitive Programming C++

- Coded efficient data structures, algorithms, and math solutions to solve problems in competition.
- 18th/500 in PC Koushien Qualifiers 2020 (UoAizu) as a team of duo, 4th/20 in SuperCon 2021 (Tokyo Tech) as a team of triple, 4th/20 in Denison Programming Contest 2024 as a team of quad.

Fun Hackathon 2024 🤖🔗 *TypeScript, React*

- Placed 2nd of 8 teams in Fun Hackathon 2024 held by Hacker Dojo. Started from finding 5 teammates, ideating, designing, coding, and presenting to the 50+ audience in 2 days.
- Made a frontend website to summarize live audio transcription real time using deepgram and llm API.
- Coded llm integration part and articulated the technical stack for 1 minute during the presentation.

Projects

Full-stack BookStore web application 🤖🔗 *React, Express.js, Node.js, MongoDB, Bootstrap*

- Full-stack web application to log in, search, and save 40+ million books from Google Books API.
- Erased 70% redundant api calls by saving book's data to user's table and login token in local storage.

X (Twitter) News Summarization bot 🤖🔗 *Python, Docker, GitHub Actions*

- Bot with 50k+ post views, translates summarized english news by GitHub Actions' CI/CD pipeline.
- Reduce pipeline run time by 3 minutes using docker and read keys from repository secrets for security.
- Web scrape contents in BeautifulSoup and summarize the content to 200 characters using gemini api.

AI Web Chatbot Chrome Extension 🤖🔗 *HTML, CSS, JavaScript*

- Chrome extension with active users, can ask AI about the current web page using gemini API.
- Saves API key in chrome storage, parse HTML into text and make API request of up to 700k+ words.
- Makes movable and resizable chatbox by event listeners and DOM manipulation with 20ms latency.

Skills

Frontend: HTML, CSS, Bootstrap, JavaScript, React

Backend: Node.js, Express.js, FastAPI, SQL, MongoDB, Weaviate

Tools/Other: C++, Python, Git, Terraform, Docker, AWS, Firebase, Bash