

Joshua J. Kong

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EDUCATION

The Ohio State University, Columbus, OH

B.S., Computer Science and Engineering, Received August 2020 - May 2023, Magna Cum Laude

M.S., Computer Science and Engineering, Expected June 2024

Dean's List (>3.5 GPA), 6/6 semesters Overall GPA (4.00 scale): 3.79

PROFESSIONAL EXPERIENCE

Software Engineer Intern, Nationwide - Columbus, OH (May 2023 – Present)

- Worked in several Agile Software Development teams using Java, Python, Typescript, Angular, and AWS.
- Developed maintainable, scalable, industry quality code by learning and utilizing best software practices across the entire Software Development Life Cycle.
- Created API endpoints to retrieve and cache external data in DynamoDB decreasing external API costs by 700%.
- Made UI changes for adding/displaying customer and cached data increasing form autofill success by 80%.
- Helped develop a Generative AI solution using LangChain OpenAI embedding that could reduce consumer call times and holds by up to 70%.
- Refactored embedding, tool creation, and Qdrant vector store logic; created a class for abstraction of LangChain conversational agent creation, tool creation, and document embedding, increasing method reusability by 90%.

Mobile App Developer, Cherish Eyesight and Vision – Columbus, OH (January 2023 – May 2023)

- Developed a mobile application for displaying and quizzing over educational videos using React Native. Increased information retention by 60%.
- Engineered a REST API with AWS Lambda, DynamoDB, and API Gateway, increasing page speed by 40%.
- Planned and held meetings with sponsors to define customer use cases and expectations.

Software Engineer Intern, Bellwood Labs – Atlanta, GA (May 2022 – August 2022)

- Developed the frontend of a website for a national law firm using PHP, WordPress, JavaScript, HTML, and CSS.
- Worked closely with clients and senior engineers to create appealing visuals and features.
- Site trafficked over 35,000 views over desktop and mobile in June 2023.

PROJECTS

Language Interface Factory and Utilization - Columbus, OH (July 2023)

- Collaborated with seasoned engineering professionals during the Nationwide Enterprise Hackathon to create a full stack application for users to build and use Generative AI chatbots without any coding or engineering expertise.
- Tech Stack: TypeScript, Angular, Tailwind CSS, Python, Flask, AWS, OpenAI, LangChain, Qdrant.
- Helped add ability to create dynamic tools and data sources for each chatbot with LangChain OpenAI embedding.
- Implemented Flask REST API backend using blueprints, flask-restful, and flask-dynamo.
- Achieved Partner-Love Award Final 8, Innovation Award Final 12, Digital Workplace Experience Award Final 13.

Room Matrix - Columbus, OH (October 2022)

- Developed a web app to help students find open rooms at specific times and buildings to study on OSU campus.
- Made in Python, with Flask and CSS for application front-end, used Selenium WebDriver to scrape information.
- Created in 15 hours as a part of Hack OH/IO hackathon.

BlockZone - Anime Legends - Columbus, OH (May 2021 – January 2022)

- Collaborated with the owner and developers of BlockZone for the backend development of a Roblox game with over \$500,000 in funding: “Anime Legends.”
- Worked on game mechanic systems like quests and inventory using Luau and Rodux.
- Developed NPC + AI interactions increasing player retention by 50%.
- Helped release an official trailer that accumulated over 1.5 million views on YouTube.

QUALIFICATIONS

- Skilled in Java, JavaScript, TypeScript, Angular, AWS Cloud Computing, React, Python, Web/Mobile, Ruby on Rails, HTML, CSS, SQL, PHP, WordPress, Version Control Systems, Linux/Unix, Ubuntu, Docker.
- Relevant Coursework: Data Structures and Algorithms, Database Systems, Artificial Intelligence, Machine Learning, Mobile App Development, Web App Development, Computer Networking, Software Development and Design, Programming Principles, Capstone Design: Web Applications.