

Jonathan J. Zhang

jjzhang1102@gmail.com, 240-779-6455

- I am interested in cybersecurity and full-stack development, and am open to internships and entry-level roles in software engineering, IT, or cybersecurity

Certifications: CompTIA ITF+, AZ-900

Technical Skills:

Frameworks/Languages: React, Node.js, Next.js, FastAPI, Python, JavaScript, Java

AI/ML: RAG, Agent, OpenAI API, Langchain, Langflow, MCP, Vector DB, CNN

Cloud/Tools: Azure, Git, Docker, VS Code, Jupyter, Ollama

Databases: MySQL, MongoDB

Education:

American University, Washington, D.C.

BS in Computer Science, Focus: Cybersecurity & Machine Learning

Relevant Coursework:

- Secure Software Development, Network Security, Machine Learning in Cybersecurity
 - Object-Oriented Programming, Operating Systems, Systems Programming
 - Data Structures & Algorithms, Database Management Systems, Data Mining
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Projects: github.com/iceage2114

RAG Chatbot:

- Developed a fullstack chatbot using React and FastAPI that leverages a RAG agent to provide users with a modern web interface.

Code Challenger:

- Fullstack application with a React frontend, FastAPI backend, and Clerk for user authentication.
- The platform enables signed-in users to generate coding challenges and track their challenge history.

Garden Helper Web App:

- Web application using Node.js and JavaScript to track and manage garden and house plants.
- Features include a plant care database, account creation, and user authentication.

Battleship Game:

- Battleship game in Java, focusing on object-oriented programming principles and design architecture.
 - Utilized the Strategy, Observer, and Factory design patterns to create a robust and extensible game logic.
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Professional Experience:

IT Intern, Lerch, Early, & Brewer Chtd., Bethesda, MD

May 2022 - July 2022

- Supported 50+ users with hardware/software issues and security updates
- Reimaged office computers and contributed to cloud reorganization
- Handled internal support tickets and conducted inventory maintenance

Sales Associate, Men's Wearhouse, Gaithersburg, MD

July 2021 - October 2021

- Delivered customer service, consultation, and product demonstrations
- Managed over \$10,000/week in sales and maintained storefront appearance