

# Jonathan J. Zhang

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**Certifications:** CompTIA ITF+, AZ-900, Google Cybersecurity Professional Certificate,

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## **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](https://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.
- Enabled 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:**

**Lerch, Early, & Brewer Chtd.**

Bethesda, MD

*IT Intern*

May 2022 - July 20

- 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

**Men's Wearhouse**

Gaithersburg, MD

*Sales Associate*

July 2021 - October 2021

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