

Minjae Jang

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EDUCATION

University of Illinois at Urbana-Champaign

May 2026

Bachelor of Science in Computer Science

3.86 GPA

- **Relevant Coursework:** Data Structures, Database Systems, Computer Architecture, Software Systems, Data Mining, Algorithms Design, Models of Computation, Web Programming
- **Clubs and Activities:** Illini Blockchain

TECHNICAL SKILLS

Languages: Java, C, C++, JavaScript, TypeScript, Python, HTML, CSS, SQL, Kotlin

Frameworks: Node.js, MATLAB/Simulink, React, GraphQL, Next.js, LangChain.js, TensorFlow, PyTorch

Tools: Jira, Git, Firebase, Docker, Kubernetes, PostgreSQL, Figma, Amazon Web Services, MongoDB, DBever

PROFESSIONAL EXPERIENCE

COUNTRY Financial

May 2025

Incoming Software Engineer Intern

Champaign, IL

University of Illinois, Carle Illinois College of Medicine

Oct 2024 – Present

Software Engineer

Champaign, IL

- Engineered a **microservices** architecture using **Java and Spring Boot** to improve system reliability and scalability.
- Integrated an AI-powered agent using Google Gemini, enabling real-time query resolution.
- Optimized system performance by refactoring core algorithms, **reducing processing time by 50%**.

MyCritters

May 2024 – Aug 2024

Software Engineer Intern

Chicago, IL

- Designed and optimized a **GraphQL**-based database schema for efficient data retrieval and security.
- Developed real-time WebSocket and SSE-powered chat features, enhancing user engagement.
- Implemented **Web Workers** and **Service Workers** to handle file uploading and messaging, ensuring the main thread remained responsive and preventing UI freezing, reducing server response time by 50%.
- Enhanced data processing workflows by developing an AI chatbot, integrating lexical data into structured formats for AI processing using **LangChain.js**.

Scholarship Auditions

May 2023 – Aug 2023

Software Engineer Intern

Nashville, TN

- Built a scalable full-stack web application using React, **TypeScript**, **Next.js** and **Amazon Web Services (AWS)** to improve messaging platform for students and college coaches to streamline communication for **5,000+ users**.
- Developed optimized **SQL queries** and Python-based APIs for backend performance improvements.
- Enhanced database efficiency by optimizing procedures and triggers in production.

PROJECTS

WildRisk AI

Feb 2025 – Present

Python, PyTorch, Langchain.js, React, JavaScript, CSS, LLaMA-Factory, Gradio

- **Fine-tuned Qwen2-VL-7B** using LLaMA-Factory to enhance large-scale wildfire risk assessments.
- Built and integrated a custom AI agent, leveraging **Retrieval-Augmented Generation (RAG)** and **Multimodal LLMs** for improved response accuracy.
- Developed an interactive **Gradio**-based chatbot UI, enabling real-time wildfire risk assessments.
- Optimized machine learning pipelines by implementing **PyTorch** and **Langchain.js** for better model interpretability and efficiency.

SLEEPS

Jan 2025 – Present

Python, React, Next.js, JavaScript, Firebase, CSS

- A user-friendly web application to diagnose potential sleep disorders based on users' responses.