

Minjae Jang

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EDUCATION

University of Illinois at Urbana-Champaign

May 2026

Bachelor of Science in Computer Science

3.93 GPA

- **Relevant Coursework:** Data Structures & Algorithms, Artificial Intelligence, Database Systems, Computer Architecture
- **Clubs and Activities:** Illini Blockchain

TECHNICAL SKILLS

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

Frameworks: Node.js, React, Express.js, GraphQL, Next.js, LangChain.js, TensorFlow, PyTorch

Tools: Git, Firebase, Docker, PostgreSQL, Figma, Amazon Web Services, MongoDB, Drizzle, Agile, DBeaver

EXPERIENCE

University of Illinois, Carle Illinois College of Medicine

Urbana, IL

Software Engineer

Oct 2024 – Present

- Engineered a **microservices** architecture using **Java and Spring Boot** to handle traffic and maintain system reliability.
- Implemented critical features such as a real-time feedback system using **JavaScript** that integrated Discord's API with detailed metadata, allowing instant communication between users and developers.
- Optimized core algorithms by resolving the recreating the frequency map issue every request, enhancing the performance and reducing processing time by **50%**.

MyCritters

Chicago, IL

Software Development Intern

May 2024 – Aug 2024

- Designed and optimized database schema using **GraphQL**, ensuring secure and efficient data retrieval and manipulation.
- Developed real-time chat feature using WebSocket and **SSE for notifications**, enabling instantaneous communication.
- Utilized **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

Nashville, TN

Software Development Intern

Jan 2024 – May 2024

- Developed a 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**.
- Delivered critical product features on the main React site, using **Python** backend, and **PostgreSQL** database.
- Refined **SQL** queries to simplify issues involving multiple tables with optimizing procedures and triggers in production.

PROJECTS

SLEEPS

Dec 2024 – Present

React, Next.js, JavaScript, Firebase, CSS

- Developed an algorithm for a data-driven approach to interpret user responses and generate accurate diagnostic results.
- Designed a user-friendly interface using **React** for collecting responses and diagnosing potential sleep disorders.

OpenSource House

July 2024 – Present

React, Next.js, TypeScript, JavaScript, LangChain.js, Firebase, CSS

- Engineered a full-stack web application, allowing users to find open-source projects regardless of their current skills
- Created a **community forum** for uses to discuss projects, share resources, and collaborate effectively
- Built an **AI chatbot** system using **LangChain.js**, allowing AI to assist users in answer questions

TileMaster

March 2024 – April 2024

React, JavaScript, HTML, CSS

- A **web-based word puzzle game** in which players must guess the word according to the feedback with limited chances
- Developed a website automatically generates a unique word and has gained reputation with an estimated 200 players across the nation with an average playing time of 2 minutes per user