

Kaining Gao

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Education

Iowa State University GPA: 3.6

Ames, IA

B.S. in Computer Science

Aug 2022 – May 2026

Skills

Languages: Java, JavaScript, Python, SQL, HTML, C, C++

Frameworks: Frontend: React, Next.js Backend: Node.js, Spring Boot

Technologies & Tools: Git, Postman, JUnit, Maven, WebSocket, AWS (S3, Lambda, EC2), MySQL, PostgreSQL

Relevant Experience

Kingdee Cloud, Beijing, China

Software Developer Intern

June 2025 – Aug 2025

- Engineered 10+ custom Java-based plugins to enhance a cloud ERP platform's HR, Contract, and Inventory modules, automating manual workflows and reducing task completion time by an estimated 15%
- Developed and tested a new inventory management module using Java and complex SQL queries
- Managed the deployment pipeline for ERP customizations on Linux servers, successfully executing over 5 production releases

ISU NextGen PPT Lab, Ames, IA

Research Assistant

Feb 2025 – Present

- Developed an automated 3D hand model analysis system in Python, creating a data processing pipeline that eliminated manual measurement errors and increased measurement speed by 400%
- Maintaining an AWS-hosted FastAPI backend with integrated AI processing, managing PostgreSQL databases, and streamlining cloud operations for a production-grade healthcare application.
- Collaborated with research team to standardize measurement protocols and ensure data accuracy

NovaCode, Remote

Tutor

Aug 2025 - Present

- Developed and delivered customized computer science curriculum to effectively prepare a student for competitive programming challenges.
 - Translated complex algorithms and coding principles into accessible, engaging lessons to build foundational problem-solving skills.
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Projects

Event Finder App (Java Spring Boot)

- Engineered the backend for an event discovery application, developing 20+ RESTful APIs with Java Spring Boot to handle core functionalities including user authentication, event CRUD operations, and search
- Designed and implemented the MySQL database schema from scratch, creating 5 relational tables to efficiently manage user profiles, event details, and registration data
- Collaborated with the Android frontend team in an Agile environment to define API contracts

AI Chat & Image Platform (Next.js + PostgreSQL)

- Built an AI chat and image platform using Next.js with TypeScript with persisted threads, and token metering—serving 200+ monthly active users
- Implemented secure auth and developer tooling with NextAuth sessions, API key issuance and usage tracking, OpenAPI docs, and an OpenAI-compatible proxy enforcing quotas
- Applied production patterns: serverless API routes, provider proxying and response sanitization, client-side cache/pagination, and robust access control