

# Jake Wang

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## EDUCATION

**University of Illinois Urbana-Champaign**  
**Master of Computer Science**

GPA: 3.94  
18 May 2025

**Relevant Courses:** Software Engineering I, Topics in Software Engineering, Applied Machine Learning, Cloud Networking, Database Systems, Advanced Data Management, User-Centered Machine Learning, Cloud Computing Applications

**University of Minnesota-Twin Cities**  
**Bachelor of Computer Engineering**

GPA: 3.53  
30 Dec 2020

**Relevant Courses:** Internet Programming, Comp Arch & Machine Org, Intro to OS, Intro to Intelligent Robotic Systems, Formal Lang & Autom, Animation & Planning in Games, Programming Graphics and Games

## SKILLS

**Programming Languages:** JavaScript, TypeScript, Java, SQL, Python, C/C++, HTML, CSS, Bash, Fortran

**Frameworks & Tools:** React.js, Next.js, Node.js, Nest.js, React Native, Expo, Express.js, Spring, Vue.js, Redux, Jest, NoSQL, MySQL, PostgreSQL, MongoDB, Supabase, Git, Docker, GitHub, AWS, GCP, Vercel, BitBucket, GitLab, Heroku, Monorepo, VScode, IntelliJ, Jira, Favro

## EXPERIENCE

**University of Illinois Urbana-Champaign**

Champaign, IL

**Lead Graduate Course Assistant - Database Systems**

May 2024 - Present

- Support 500+ students in Database Systems by answering database-related questions, providing guidance, and tracking their progress
- Design, test, and grade 100+ machine problems in SQL, MySQL, MongoDB, and Neo4j, ensuring alignment with course objectives and student learning outcomes
- Collaborate with teaching staff to refine course content and delivery, fostering an engaging and effective learning environment

**Illinois Enactus - Jila**

Champaign, IL

**Tech Lead - Volunteer**

Sep 2024 - Dec 2024

- Led the development of Jila, a multilingual, community-driven app serving 1,000+ Q'anjob'al users, using Next.js, React Native, and PostgreSQL, in collaboration with a cross-functional team
- Designed the core app architecture, optimizing database design, API integration, and scalability to streamline team-led feature development and seamless feature integration
- Mentored and delegated tasks to 5 junior developers, fostering their technical growth while ensuring alignment with project objectives and cross-functional collaboration

**Foundry Co**

Minneapolis, MN

**Software Engineer**

Jun 2021 - Aug 2023

- Collaborated with UX and engineering teams to plan and implement numerous in-demand features across 6 concurrent apps, employing technologies such as Next.js, Node.js, Nest.js, and React.js
- Engaged in development and maintenance for a high-traffic Java site serving over 50,000 users with Spring & Vue.js
- Reduced web page response times by over 10 seconds by refactoring a complex Express.js & MongoDB back-end to Nest.js & PostgreSQL, leveraging Prisma ORM for data management and Jest for unit testing
- Designed and built quality RESTful APIs for various applications and integrated APIs across multiple projects
- Contributed to software design and conducted code reviews to improve code quality and maintainability

## PROJECTS

**Lil Networking: Networking Building and Management Multi-Platform App**

May 2024 - Aug 2024

**The app designed to help people form intentional networking habits that lead to professional relationships**

- Developed a multi-platform Progressive Web App using Next.js and a native mobile app using Expo, featuring OAuth-based authentication via LinkedIn and Google for secure user login
- Designed intuitive user interfaces with TailwindCSS and Material-UI, enhancing navigation and interaction while integrating push notifications to keep users engaged
- Built a scalable backend with PostgreSQL and Prisma ORM, optimizing data management and retrieval for a seamless user experience