# Jake Wang

✉ jakewangzhi@gmail.com | 📱 +1(612)500-8023

in linkedin.com/in/jake0wang | ⓖ github.com/Jake-WangZhi | 🏠 jakewangzhiportfolio.vercel.app

## EDUCATION

**University of Illinois Urbana-Champaign** <span style="float:right">GPA: 3.94</span>

*Master of Computer Science* <span style="float:right">*18 May 2025*</span>

**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** <span style="float:right">GPA: 3.53</span>

*Bachelor of Computer Engineering* <span style="float:right">*30 Dec 2020*</span>

**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** <span style="float:right">Champaign, IL</span>

*Lead Graduate Course Assistant - Database Systems* <span style="float:right">*May 2024 - Present*</span>

- Provide guidance, answer database-related questions, and track the progress of 500+ students in both relational and NoSQL Database Systems
- Design, test, and grade 100+ machine problems in SQL, MySQL, MongoDB, and Neo4j, ensuring alignment with course objectives and student learning outcomes
- Collaborate with 20+ teaching staff to refine course content and delivery for an engaging learning environment

**Illinois Enactus - Jila** <span style="float:right">Champaign, IL</span>

*Tech Lead - Volunteer* <span style="float:right">*Sep 2024 - Dec 2024*</span>

- 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** <span style="float:right">Minneapolis, MN</span>

*Software Engineer* <span style="float:right">*Jun 2021 - Aug 2023*</span>

- 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
- Participated in the full SDLC within an Agile development team, contributing to software design, code reviews, and sprint ceremonies to improve code quality, maintainability, and delivery efficiency
- Designed and built quality RESTful APIs for various applications and integrated APIs across multiple projects

## PROJECTS

**Lil Networking: Networking Building and Management Multi-Platform App** <span style="float:right">*May 2024 - Aug 2024*</span>

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

- Developed a multi-platform Progressive Web App with Next.js and a native mobile app with Expo, implementing OAuth authentication via LinkedIn and Google for secure user login
- Crafted responsive user interfaces with TailwindCSS and Material-UI, improving navigation flow and accessibility while integrating push notifications to drive user engagement and real-time interaction
- Built a scalable backend with PostgreSQL and Prisma ORM, optimizing data management and retrieval for a seamless user experience