

Jake Wang

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EDUCATION

University of Illinois Urbana-Champaign

GPA: 3.94

Master of Computer Science

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

GPA: 3.53

Bachelor of Computer Engineering

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: Git, React.js, Next.js, React Native, Expo, Vue.js, Node.js, Nest.js, Express.js, Spring, Redux, Jest, TailwindCSS, NoSQL, MySQL, PostgreSQL, MongoDB, Neo4j, Supabase, Docker, GitHub, AWS, GCP, Vercel, BitBucket, GitLab, Heroku, Netlify, Monorepo, VScode, IntelliJ, Jira, Favro

EXPERIENCE

University of Illinois Urbana-Champaign

Champaign, IL

Lead Graduate Course Assistant - Database Systems

May 2024 - Present

- 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

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
- 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

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 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