

"Jake" Zhi Wang

✉ jakewangzhi@gmail.com | [🌐 linkedin.com/in/jake0wang](https://www.linkedin.com/in/jake0wang) | [🐙 github.com/Jake-WangZhi](https://github.com/Jake-WangZhi)
🏠 jakewangzhiportfolio.vercel.app

EXPERIENCE

Illinois Enactus - Jila

Champaign, IL

Tech Lead - Volunteer

Sep 2024 - Present

- Spearheading the development of the Jila app, focusing on creating a community-centric, multilingual solution utilizing Next.js, React Native, and PostgreSQL
- Architecting the foundational app structure to facilitate seamless team-driven feature development while balancing both technical and user-centric considerations
- Ensuring and upholding high standards of code quality, prioritizing accessibility and cultural sensitivity to effectively serve the Q'anjob'al community
- Collaborating closely with software developers, project managers, and product designers to integrate features into a cohesive application and drive critical component development

University of Illinois Urbana-Champaign

Champaign, IL

Graduate Course Assistant - Database Systems

May 2024 - Present

- Assisted in teaching Database Systems, supporting students in their learning journey by answering database-related questions and monitoring their progress
- Designed, tested, and graded SQL, MySQL, MongoDB, and Neo4j machine problems to ensure alignment with course objectives and student learning outcomes
- Collaborated closely with teaching staff to enhance course content and delivery, contributing to a dynamic learning environment

Foundry Co

Minneapolis, MN

Full Stack 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

- Designed and implemented a multi-platform Progressive Web App using Next.js and a native mobile app using Expo
- Created user-friendly interfaces using TailwindCSS and Material-UI to facilitate easy navigation and interaction
- Utilized OAuth login thru LinkedIn and Google for secure user authentication and personalized configurations
- Leveraged Prisma ORM for seamless interaction with PostgreSQL, enabling efficient data management and retrieval
- Set up push notifications using web-push to keep users engaged and informed about networking opportunities

EDUCATION

University of Illinois Urbana-Champaign

Expected Dec 2024

Master of Computer Science

GPA: 4.0

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

University of Minnesota-Twin Cities

Dec 2020

Bachelor of Computer Engineering

GPA: 3.5

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