

# "Jake" Zhi Wang

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🏠 [jakewangzhiportfolio.vercel.app](https://jakewangzhiportfolio.vercel.app)

## EDUCATION

### University of Illinois Urbana-Champaign

Expected 2024

Master of Computer Science

**GPA: 4.0**

**Relevant Courses:** Cloud Networking, Cloud Computing Applications, Database Systems, Applied Machine Learning

### University of Minnesota-Twin Cities

Dec 2020

Bachelor of Computer Engineering

**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

## WORK EXPERIENCE

### University of Illinois Urbana-Champaign

Champaign, IL

#### Graduate Course Assistant

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

- Operated efficiently in a fast-paced startup environment, managing up to 8 different projects, requiring the use of various languages and tech stacks
- 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 full-stack web development and maintenance for a high-traffic Java site serving over 50,000 users with Spring & Vue.js
- Implemented a client portal website within 2 weeks to improve communication and better monitor project progress between project managers and clients, using React.js & Node.js
- Enhanced features and resolved bugs for a biking mobile app on the App Store, utilizing React Native & Expo for the front-end and NestJS & PostgreSQL for the back-end, integrating Google Maps for route calculations
- Developed a Slack app within 2 weeks, providing an efficient solution for recording pool matches through Supabase serverless functions
- 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
- Contributed to software design, conducted code reviews, and provided constructive feedback to improve code quality and maintainability
- Designed and built quality RESTful APIs for various applications and integrated APIs across multiple projects
- Coordinated with the team to define execution plans and managed tasks effectively using Jira & Favro
- Interacted professionally with clients to understand their needs and provide daily technical assistance

## PROJECTS

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

May 2023 - Present

*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
- Enabled Progressive Web App (PWA) capabilities for an enhanced user experience on all devices
- Set up push notifications using web-push to keep users engaged and informed about networking opportunities
- Deployed the application and added analytics on Vercel to better understand user preferences

## TECHNICAL 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, Redux, Jest, NoSQL, MySQL, PostgreSQL, MongoDB, Supabase, Git, Docker, Github, AWS, GCP, Vercel, BitBucket, GitLab, Heroku, VScode, IntelliJ, Jira, Favro