"Jake" Zhi Wang

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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

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

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
- Engaged in full-stack web development and maintenance for a high-traffic Java site serving over 50,000 users with Spring and Vue.js
- 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
- Implemented a client portal website within a month to improve communication and better monitor project progress between project managers and clients, using React.js & Node.js
- Developed a Slack app within two weeks, providing an efficient solution for recording pool matches through Supabase serverless functions
- Enhanced features and resolved bugs for a biking mobile app on the App Store, utilizing React Native and Expo for the front-end and NestJS and PostgreSQL for the back-end, integrating Google Maps for route calculations
- Reduced web page response times by over 10 seconds by refactoring a complex Express.js & MongoDB back-end to Nest.js & PostgreSQL leveraging Prisma
- Designed and built quality RESTful APIs for various applications and integrated APIs across multiple projects
- Contributed to software design, conducted code reviews, and provided constructive feedback to improve code quality and maintainability
- 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   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