HONGJIN QUAN

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EDUCATION

Cornell Tech (Cornell University), New York, NY   August 2023 - May 2025
Jacobs Technion-Cornell Dual Master of Science Degrees – Information Technology| GPA: 3.5
Merit Scholarship
Coursework: Data Structure and Algorithm, HCI design, Applied Machine Learning, Building Startup Systems

Technion - Israel Institute of Technology   August 2019 - August 2023
Bachelor of Science in Chemical Engineering | GPA: 3.8

TECHNICAL SKILLS

Coding Languages:	Python, Java, C++, JavaScript, TypeScript, HTML/CSS, MySQL
Operating Systems:	Windows, UNIX, Linux
Other Tools:	Node.js, React, React Native, Tailwind, RESTful API, AWS, MongoDB, PostgreSQL, Git

EXPERIENCE

Weill Cornell Medicine | Swift, Node.js, MongoDB, HTML/CSS/JavaScript   November 2023 - Present
Software Development Intern   New York
- Participate in the development of IOS application "Attuned", which provides free training lessons for LGBTQ+ users to transform their voices as needed.
- Use **Swift** to create main navigation and interactive buttons, while displaying tutorials and other web content using **JavaScript**.
- Led a major redesign project for the application using **Figma**, focusing on enhancing user experience and visual appeal. Successfully transformed the interface to be more intuitive and aesthetically pleasing, resulting in a **40% increase** in user engagement and a significant reduction in customer support inquiries.
- Optimized multiple API interactions for improved performance and reliability to **70% faster**, ensuring a smooth user experience even under high traffic.

Scholarship Auditions | React, RESTful API, PostgreSQL, AWS RDS   September 2023 – November 2023
Full Stack Development Intern   New York (Remote)
- Led the development of the "AmericanBandDad" website from scratch, a dynamic course offering platform designed to seamlessly integrate podcasts, games, and music courses, delivering a holistic and engaging user experience.
- Architected and executed the website's front end using **React**, ensuring a responsive and interactive interface suitable for diverse content types, including podcasts, quizzes, and newsletter components.
- Leveraged multiple **RESTful APIs** to fetch data for quiz questions and podcast resecures, used **Redux** to update overall user information and quiz scores.
- Built and connected the **PostgreSQL** database to store podcast and music data and deployed the website via **AWS RDS.**

Hubu Technology | Django, MySQL, AJAX, HTML/CSS/JavaScript   May 2022 - August 2022
Frontend Development Intern   Shanghai
- Participated in web front-end development by transforming UI renderings into standard web production using HTML/CSS for more than **20** static pages and **JavaScript** for sharing and plugin integrations.
- Implemented responsive web design principles to ensure consistent functionality and appearance across various devices, enhancing user satisfaction and accessibility.
- Created **AJAX** requests using JavaScript to connect **Django** allowing for asynchronous data exchanges between the client and server. Boosted sales revenue by **42%** by enhancing search capabilities and user experience.

PROJECTS

Full Stack Real-time Messenger | Next.js 13, TypeScript, Tailwind CSS, Prisma, Pusher, MongoDB
- Spearheaded the development of a real-time messaging application, aiming to offer users an intuitive, responsive, and high-performance chat experience.
- Adopted **Next.js 13** as the foundation, ensuring server-side rendering for **React** applications, thereby boosting performance and SEO capabilities.
- Crafted a modern, responsive user interface utilizing React. Further refined aesthetics and user experience leveraging the power of **Tailwind CSS**.
- Integrated **Prisma** as the go-to database toolkit, establishing seamless interactions with **MongoDB**, ensuring efficient data operations, and **Pusher** is applied to deliver real-time messages.

Health App Development | React Native, Java, HealthKit APIs, Firebase
- Led a team to develop a health-centric mobile application aimed at offering users' real-time insights into vital metrics such as heart rate, steps, and sleep patterns.
- Conceived and executed an intuitive user interface design emphasizing essential health metrics. Leveraged React Native components and animations, boosting the application's visual allure and functional ease.
- Seamlessly integrated with HealthKit APIs to fetch and sync user health data. Instituted rigorous error handling and data validation processes to uphold data reliability and integrity. Incorporated Firebase to manage user authentication and data storage, ensuring a robust, secure, and scalable data management environment.