

# KONG YU CHEN

Software Engineer | Bronx, New York | 917-403-7808

[LinkedIn](#) | [kongyuchen.com](http://kongyuchen.com) | [Github](#) | [kychen249@gmail.com](mailto:kychen249@gmail.com)

## TECHNICAL SKILLS

**Front-End:** HTML5, CSS3, JavaScript (ES5 and ES6), jQuery, React, Git version control, SASS, Next.js, Material UI, Axios, Object-Oriented-Programming, Styled components, Vite, tailwindcss, Chakra UI

**Back-End:** MongoDB, Mongoose, MySQL, NoSql, SQLite, Node.js, Express, PostgreSQL

**Testing and Deployment:** Jest unit testing, Mocha, Chai, AWS

**Developer Tools:** Vim, Git, npm, Webpack, Babel, Yarn, Agile Methodology, Nodemon, Dotenv

## SOFTWARE ENGINEERING APPLICATION

**Full-Stack Engineer** | My Dose | [Github Repo](#)

2022

*An application for diabetics to quickly calculate their meal time insulin dose.*

- Designed and created a MVP project using **React Native**, **TailwindCSS**, and **MongoDB** in 48 hours to improve patient tracking of insulin usage by allowing quick bolus calculations and instantaneous collection of data.
- Decreased average bolus calculation time by **30s** by persisting an user's session using **React Native's** async local storage.
- Tested and debugged the app on both iOS and Android devices to ensure smooth performance and compatibility across all platforms.

**Full-Stack Engineer** | MUSI | [Github Repo](#)

*Social media platform for musicians*

- Utilized **nextAuth** and **Auth0** to handle user registration, login, and logout functionality, as well as password hashing and storage of user information in a secure manner
- Developed a system to store and retrieve user-generated audio files to a **PostgreSQL** database and display them to user personal profiles via dynamic queries using **Prisma.io** for sharing with other users on the platform.
- Integrated **TypeScript** to validate types, and improve code quality, reducing debugging time, improving legibility, and increasing maintainability of codebase.

**Front-End Engineer** | Jasmine | [Github Repo](#)

2022

*Webpage for clothing shop with multiple styles*

- Redesigned the Q&A section utilizing **React** and **Flexbox** to provide a user-friendly experience and upgraded responsiveness on desktop, tablet and mobile devices.
- Implemented **RESTful API** endpoints to efficiently extract data by leveraging modern **React Hooks** and **Axios** requests.
- Integrated form validation using regular expressions and built-in **React** state management to track and display error messages while ensuring user input is accurately formatted for communication with backend API.

**Back-End Engineer** | Atelier API Extension | [Github Repo](#)

*Data modeling and scaling*

2022

- Optimized **PostgreSQL** queries via indexing and incorporation of **Sequelize ORM** to reduce query time of 50,000 rows of user data from **5000ms** to an average of **1.5ms**.
- Constructed a brand new backend system using an **Express server** and custom API routes and endpoints to replace outdated legacy server.
- Performed ETL (extract, transform, load) processes on over **15 million** rows of CSV data to create a singular collection of just over 1 million documents, reducing database query times by **200%**.

## OTHER EXPERIENCE

**Pharmacist** | Rite Aid, Highland, NY

Nov 2021 - June 2022

- Supervised 5+ pharmacy interns and technicians to safely and efficiently dispense 400+ prescriptions/day.
- Coordinated the immunizations of 40+ patients/day alongside providing detailed safety information during the height of the pandemic.
- Liaised between patients, physicians and insurance companies to ensure smooth and efficient medication fulfillment and reimbursement, resulting in a high-performance pharmacy operation

## EDUCATION

**Hack Reactor:** Certificate in Advanced Full-stack Software Engineering

Oct 2022 - Present

**University at Buffalo SPPS:** Doctorate of Pharmacy

Sep 2017 - June 2021

**Scrimba:** Front-End Career Path

Mar 2022 - June 2022