

TYVAN CHENG

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SKILLS

JavaScript, Python, Ruby, AWS, React.js, Redux, Ruby on Rails, Rspec, SQL, SQLite3, PostgreSQL, Mongoose, MongoDB, Express, Node.js, Git, HTML, CSS

PROJECTS

SoundSpace

[Repo](#)

- Utilized React's component-based approach to provide a dynamic and intuitive interface for users in a music app that empowers grassroots artists to share music and connect with followers.
- Spearheaded the creation of a high-performance backend infrastructure on the Express framework, employing the asynchronous and non-blocking characteristics of Node.js to ensure efficient handling of numerous concurrent connections.
- Migrated artists' content from MongoDB to AWS S3 to enable unlimited scalability, server-side encryption to protect sensitive data, and efficient data retrieval/upload due to its distributive architecture.
- Initiated agile project management to enhance productivity and exceeded EOW goal completion by 30%.

LockedIn

[Live](#) | [Repo](#)

- Developed a LinkedIn clone on the Rails framework to utilize their built in ORM, Active Record, for seamless database querying and built-in protection against CSRF and SQL injections.
- Enabled clients to interact with servers through RESTful APIs to manage their activities via CRUD operations.
- Implemented PostgreSQL as the RDBMS to take advantage of the predefined structure and SQL support in handling complex queries and maintaining vertical scaling ability.
- Designed custom user authentication using BCrypt and React Auth Routes to ensure secure password hashing storing and restrict unauthorized access to sensitive user data, enhancing security for users.

EXPERIENCE

Albertson Fire Company, Albertson, NY

June 2019 - Present

Firefighter and Emergency Medical Technician

- Constructed a map board built with LED controllers and a Python-based email parser integrated with Google's Dashboard API to display crucial data pre-arrival, improving response time by 15% over 6 months.
- Lead QA/QI team for the EMS sector, applying an iterative Scrum approach in E-PCR case reviews.

NYU Winthrop Hospital, Mineola, NY

August 2022 - December 2022

Cardiothoracic/Surgical Intensive Care Unit Registered Nurse

- Managed critically ill post-operative patients recovering from trauma, open-heart, and vascular surgeries.
- Responsible for titration of critical care intravenous medications, resulting in a 0% medication error rate.

MDamerica Wellness, New York, NY

August 2021 - Present

Registered Nurse

- Troubleshoot molecular in-vitro diagnostic machines utilized by medical testers and render aid as needed.
- Promote clientele acquisition and strengthen on-site client relationships through personalized interactions.

EDUCATION

App Academy, New York, NY

February 2023 - June 2023

Full Stack Web Development

Adelphi University, Garden City, NY

August 2018 - May 2022

Bachelor of Science in Nursing

GPA: 3.7/4.0

LICENSES & CERTIFICATIONS

- NYS Registered Professional Nurse
- Firefighter 1