

TYVAN CHENG

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SKILLS

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

BST

New York, NY

Software Engineer

June 2023 - Present

- Developing a donor rewards & incentives pricing engine, for CSL Plasma, driven by pricing levers and ML models anticipating donor behavior to achieve an average of a 5% decrease in centers' cost-per-liter within 2 months of development
- Contributed to 25% of incentive pricing strategies deployed for A/B testing, increasing the number of returning donors by 7%

Albertson Fire Company

Albertson, NY

Firefighter and Emergency Medical Technician

June 2019 - Present

- 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

Cardiothoracic/Surgical ICU Registered Nurse

August 2022 - December 2022

- Managed critically ill post-operative patients recovering from trauma, open-heart, and vascular surgeries

EDUCATION

App Academy

New York, NY

Full Stack Web Development

February 2023 - June 2023

Adelphi University

Garden City, NY

Bachelor of Science in Nursing (GPA: 3.7/4.0)

August 2018 - May 2022

OTHERS

Licenses & Certifications: NYS Registered Professional Nurse, Firefighter 1

Hobbies: Learning new skills, tennis coach, avid runner and golfer