

TYVAN CHENG

(516) 462-4664 | Tyvancheng@gmail.com | [LinkedIn](#) | [Github](#) | [Portfolio](#) | New York, NY

LANGUAGES AND SKILLS

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

PROJECTS

TouchBase

- Currently developing a React Native application to streamline fire department operations and management
- MongoDB utilized as the database solution and user authentication managed by Google's Firebase
- Developing a personnel distribution recommendation algorithm to ensure equal-opportunity roles

LockedIn

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

- Developed a LinkedIn clone on the Rails framework to utilize their 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 SQL support in handling complex queries
- Designed custom user authentication using BCrypt and React Auth Routes to ensure secure password hashing

EXPERIENCE

Digital Asset Research

New York, NY

Software Engineer Intern

September 2023 - Present

- Optimized HD wallets to utilize the Esplora API and accept multiple inputs for partially signed bitcoin transactions (psbt)
- Using Solidity to develop smart contracts on the Ethereum Virtual Machine (EVM)

BST

New York, NY

Software Engineer (Part-time)

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
- Created data pipeline & incorporated ETL processes on >20% of data to be integrated with our ML models

Albertson Fire Company

Albertson, NY

Volunteer 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
- Collaborated closely with trauma and surgical attendings to develop short term treatment plans on critically unstable patients

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 and Certifications: NYS Registered Professional Nurse, Firefighter 1

Hobbies: Tennis coach, avid runner and golfer