TONY LIN

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EDUCATION

CUNY Hunter College   *Expected Dec. 2024*

Bachelor of Arts in Computer Science

Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Computer Architecture, Operating Systems, Web Development, Data Communications & Networks, Network Security

WORK EXPERIENCE

NYC Department of Transportation   *Nov. 2021 - Present*

Data Analyst Intern,   *Queens, NY*

- Built real-time data streaming using Server-Sent Events to monitor vehicle counts and incidents
- Developed a Node.js utility that reduced XML to JSON conversion time by 30%
- Implemented real-time flow maps using polyline to improve situational awareness by 100%
- Deployed video analytics that improved traffic monitoring accuracy by 80% for over 850 traffic camera
- Collaborated with engineers and city planners to develop data-driven solutions for traffic management

PROJECTS

Meatmeal   *Sept. 2024 - Present*

Description: A full-stack web application that recommends recipes based on input ingredients

- Designed a RESTful API using Node.js and Express.js to fetch recipe data with a React-based interface
- Implemented Firebase authentication to enable user reviews, favoriting, and image uploads
- Optimized backend data storage using PostgreSQL and Sequelize for better performance

Unionizer   *Sept. 2024 - Present*

Description: A full-stack platform that simplifies union organizing

- Built secure RESTful API endpoints and optimized PostgreSQL schema for managing union data
- Implemented end-to-end encrypted real-time chat using WebSocket for secure communication
- Worked closely with cross-functional teams to design and implement a responsive user interface

College Search   *Nov. 2023 - Dec. 2023*

Description: A full-stack web application that helps users search and manage universities with CRUD

- Engineered a RESTful API using Express and Node.js for backend university management
- Implemented secure user authentication with React and Redux, including password hashing with Sequelize
- Integrated client-side routing for seamless navigation and improved user experience

TECHNICAL SKILLS

Programming Languages: C++, C#, HTML, CSS, SASS, JavaScript, TypeScript, SQL, Python

Technologies: PostgreSQL, Express, React, Node.js, Next.js, Firebase, RESTful APIs, Sequelize, Git, Docker

Languages: English (native), Chinese (native), Spanish (beginner)

Interests: Cooking, Weightlifting, Reading, Traveling, Thrifting, Board Game, Music