

Tony Lin

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Education

CUNY Hunter College

Expected Dec. 2024

Bachelor of Arts in Computer Science

GPA: 3.34

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

Skills

Languages: C++ | CSS | HTML | JavaScript | Typescript | SQL | Python | C#

Technologies: Express | Firebase | Git | Github | Node.js | Next.js | PostgreSQL | React | Redux | Restful APIs | Sequelize | Tailwind | Unity

Experience

NYC Department of Transportation | Traffic Management Intern

Nov. 2021 - Present

- Developed a data conversion utility using Node.js, optimizing XML to JSON transformation, and enhancing data processing efficiency.
- Implemented interactive flow maps using polyline technology for real-time traffic analytics, improving situational awareness for engineering teams.
- Deployed advanced video analytics, improving real-time traffic monitoring accuracy.
- Managed 850+ traffic surveillance cameras, ensuring system reliability, uptime, and data integrity.

Projects

Meatmeal

Sept. 2024 - Current

Technologies Used: HTML, CSS, JavaScript, Node.js, Express.js, Firebase

- Develop a web application that recommends recipes based on user-input ingredients using RESTful API.
- Implementing additional features such as ingredient suggestions, favoriting recipes, user authentication, and database integration for user data and recipe storage.

Unionizer Platform

Sept. 2024 - Current

Technologies Used: E2EE, React, Node.js, Firebase Authentication, Redux, Next.js, Tailwind, Typescript

- Develop a full-stack E2EE platform to facilitate union organizing.
- Building features such as end-to-end encryption of user data, legal resources feature, unionization voting systems, real-time chat, and subchannels support different workplace locations.

CollegeCrate Web Application

Nov. 2023 - Dec. 2023

Technologies Used: Express, Node.js, PostgreSQL, React, Redux, Sequelize

- Built a full-stack web app allowing users to search and manage favored universities with full CRUD functionality.
- Implemented client-side routing, user authentication, and secure password hashing with Sequelize hooks.
- Integrated external APIs for auto-filling and displaying university data.