

# Tianchou (Joe) Gong

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San Jose, CA

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GitHub: <https://github.com/GongTianchou>

## EDUCATION

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### Northeastern University, Silicon Valley Campus

*M.S. Computer Science, Khoury School of Engineering (GPA: 4.00/4.00)* August 2022 – December 2024 (Expected)

**Relevant Coursework:** Discrete Structures, Object-Oriented Design, Data Structures and Algorithm, Database Management System

### Temple University, Philadelphia, PA

*B.B.A. Actuarial Science, Fox School of Business (GPA: 3.54/4.00) Dean's list*

August 2014 – July 2016

## EDUCATION

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**Languages:** C, Python, Java, JavaScript, TypeScript, HTML, CSS

**Tool & Frameworks:** Github, AWS, Azure, React.js, Next.js, Node.js, Bootstrap

**Database:** MS Access, MySQL, MongoDB

## WORKING EXPERIENCE

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### Repartee-AI, San Jose, CA

June 2023 – Present

*Software Engineering Intern*

- Developed a violation detection website employing **TypeScript** and **Django**, contributing to enhanced community safety through video analytics.
- Designed real-time tracking features with **TensorFlow** and an **SSD AI model** trained on the **COCO dataset**, resulting in swift and accurate object detection.
- Integrated the **Deep SORT** algorithm to achieve precise object tracking and association in dynamic video scenarios, utilizing **Label Map** for analysis.

### Northeastern University – MIG Lab, San Jose, CA

May 2023 – Present

*Graduate Research Assistant*

- Collaborated with Professor Jeongkyu Lee to facilitate cutting edge research on SQL Autograder which employs LLM and Abstract Syntax Tree Cosine Similarity.
- Develop an automatic grading system using **JavaScript** and **Python** for Khoury college, increased grading efficiency for instructors and providing accuracy and reliability feedback to students.
- Planning to work with Codegrade company to apply the grading system in Database Management course for NEU students in Fall 2023.

## PROJECT EXPERIENCE

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### Online Shopping Store (Full-Stack)

November 2022 – February 2023

- Built an online shopping store using **React.js**, integrating **GraphQL** queries and mutations for efficient product data management and secure transactions through PayPal.
- Implemented user authentication feature, enabling account creation, login, and profile management ensuring a secure user experience.
- Created intuitive product listing and details pages, along with a functional shopping cart component, delivering a visually appealing design for optimal usability across devices.

### City Weather Forecast (Full-Stack)

June 2022 – July 2022

- Developed a website that offers multiple cities 5-day forecast outlook for travelers, added user's search to the search history, and provided travelers an easy way to make informed decision.
- Used the service-side OpenWeather service APIs to retrieve weather data (including temperature, humidity, wind speed, UV Index) for cities; Developed the fronted using HTML and CSS; Updated the website throughout Bootstrap's grid system, Utility Classes, and UI components.
- Developed a search history feature that efficiently stores previously searched locations, optimizing user's experience in planning travel itineraries for multiple cities.