

# ANDREW SHOTA TSAI

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## EDUCATION

### Northeastern University

*B.S. in Computer Science*

**GPA:** 3.5, Cum Laude

**Relevant Coursework:** Data Structures & Algorithms, Networks and Distributed Systems, Object-Oriented Design, Web Development, Data Science, Computer Systems, Database Design, Software Engineering, Cybersecurity

September 2021 – May 2025

Boston, MA

### The University of Tokyo

*USTEP Exchange Program*

April 2024 – August 2024

Tokyo, Japan

## EXPERIENCE

### Cirrus Data Solutions Inc. | *Software Engineer Co-op*, Remote

June 2023 – December 2023

- Enhanced a web application which employed virtual machines for data migration and testing demonstrations of an enterprise cloud product utilized by 500+ worldwide organizations
- Improved efficiency for administrative tasks via resolving software bugs and introducing new user-friendly features
- Consolidated virtual machine management from Azure and AWS platforms onto a unified interface
- Added tracking of KPIs and metrics that were previously not natively shown by cloud providers, significantly reducing spending

### Chirp | *Software Engineer Intern*, Remote

February 2023 – May 2023

- Self-learned HTML, CSS, and PHP to successfully deploy a website for UPenn Wharton Venture Initiation Program startup
- Coordinated with UX/UI designer to apply code in alignment with Figma designs for website serving B2B/B2C interests
- Established functional PHP forms to consolidate interested user data to a waitlist based on business strategy requirements

### Northeastern Electric Racing | *Software Team Member*, Boston, MA

September 2022 – May 2023

- Contributed to the development of a project management website used by over 250 members
- Developed skills in Git, React, TypeScript, Express, and Prisma through Jira tickets

## PROJECTS

### Kanbas - Full Stack Web App | TypeScript, React, JavaScript, Node, MongoDB

December 2024

- Developed an interactive full-stack copy of the course management web application Canvas
- Implemented RESTful API endpoints to support CRUD operations and connected the MongoDB database to the back-end via Mongoose for efficient data storage, retrieval, and manipulation

### Covey.Town - Vote-Kick Feature | TypeScript, React, Node, Docker, Firebase

December 2023

- Coordinated with three team members using Agile development methodologies to integrate profanity filter and vote-kick features to the existing codebase for the open-source virtual meeting space
- Conducted unit testing using Jest, utilized Firebase authentication/database for user tracking, and successfully deployed the web application

### NomNomNow - Restaurant Delivery Mockup | Python, Docker, SQL, ngrok

December 2022

- Collaborated with two peers to design a prototype for a restaurant delivery service
- Produced relational and entity-relationship diagrams with wireframes for an application, populated an SQL database with 13 tables and 390 entries of mock data
- Modelled screens in Appsmith, connecting the database to the webapp through Docker, Ngrok, and Flask

## SKILLS

**Languages:** Python, Java, TypeScript, React, JavaScript, C, C#, SQL, NoSQL, HTML, CSS, PHP, Shell

**Developer Tools:** Git, VS Code, IntelliJ IDEA, DataGrip, Docker, Figma, Ngrok, VMWare, Gradle, Jenkins

**Technologies/Frameworks:** ReactJS, Jest, Redux, NodeJS, ExpressJS, PrismaJS, MongoDB, Firebase, Flask, Windows OS, MacOS, Linux

**Spoken Languages:** *Bilingual Proficiency:* English, Japanese | *Intermediate:* Mandarin