

ANDREW SHOTA TSAI

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EDUCATION

Northeastern University, Boston, MA

May 2025

B.S. in Computer Science

GPA: 3.5

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

Honors & Awards: Cum Laude, Dean's List, Dean's Scholarship

The University of Tokyo, Tokyo, Japan

April 2024 – August 2024

USTEP Exchange Program

RELEVANT EXPERIENCE

Sirinti AI

June 2025 – Present

Software Engineer

Remote

- Building automated workflow system that orchestrates client onboarding and daily prospecting scripts, eliminating 5 hours of manual daily operations and freeing team to focus on client growth as customer base scales
- Developing pipeline that parses client Ideal Customer Profiles, queries Apollo API for matching companies and contacts, and exports CSV that loads directly into platform for enrichment and scoring
- Shipped full-stack company-watchlist and lead-campaign features (Next.js, NestJS, Postgres) with CSV import/export, sortable multi-column tables, and Redux state that persists selections across navigation
- Designed and built RESTful endpoints for admin marketing-news system across both Next.js homepage and Vite dashboard, enforcing admin-only access controls for create, edit, and delete operations end to end

Cirrus Data Solutions

June 2023 – December 2023

Software Engineer Co-op

Remote

- Delivered admin controls and bug fixes for internal cloud-migration testing platform offering 40+ lab scenarios, replacing manual VMware operations with in-app buttons for scenario cleanup, reset, and management
- Wrote Python scripts using AWS Boto3 and Azure SDKs to consolidate VM utilization data across both clouds, surfacing always-on but idle instances that team removed to cut 15% from monthly infrastructure spend

Chirp

February 2023 – May 2023

Software Developer Intern

Remote

- Developed 4-screen marketing and registration site for early-stage student-led startup as sole frontend developer, translating Figma designs into responsive production code that launched alongside the mobile app
- Wired contact form to PHP backend that routed inquiries to team email, handling form validation and submission flow as only interactive element on marketing site

PROJECTS

Insta Share | Java, Spring Boot, Angular, TypeScript, Redis, AWS

November 2025

- Engineered real-time file-sharing web app where users drag and drop files onto shared 2D canvas or sidebar list, with anonymous session-based collaboration powered by WebSockets and STOMP messaging
- Used Redis to cache presigned S3 URLs and enforce per-user rate limits, covered service logic with JUnit and Mockito tests automated via GitHub Actions CI, and load-tested to 50+ concurrent users to verify sync under load

Menu Passport | Python, LangChain, React, TypeScript, GCP

October 2025

- Architected agentic AI system using LangChain that orchestrates 10 tools to translate foreign restaurant menus from photo to enriched output, including OCR, item filtering, translation, currency conversion, and dish imagery
- Reduced LLM token usage by 60% by passing structured tool context between agent steps instead of full JSON payloads and caching translation and image results per item to skip API calls on previously seen menu items

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

December 2023

- Implemented vote-kick governance feature for open-source virtual meeting platform across Agile sprints, designing React modals and voting logic that remove peers who triggered profanity filter three times
- Integrated Firebase authentication to enable persistent user identity and blacklisting after kick, preventing kicked users from rejoining via new tab, and validated voting and auth logic with Jest tests

SKILLS

Programming Languages: Python, Java, TypeScript, JavaScript, SQL, NoSQL, HTML, CSS

Frameworks & Libraries: React, Node.js, FastAPI, LangChain, Spring Boot, Next.js, NestJS, JUnit, Mockito, Tailwind

Databases: MySQL, PostgreSQL, MongoDB, Firebase, Redis

Tools & Platforms: Git, GitHub Actions, AWS, GCP, Docker, Maven, Postman, Cursor, Claude Code

Spoken Languages: English & Japanese (Bilingual), Mandarin (Intermediate)