

# Zhaosiya (Ashley) Liu

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## EDUCATION

### New York University

B.A, Computer Science; Minor: Philosophy  
GPA: 3.83/4.00

New York, NY

Expected May 2026

**Coursework:** Data Structures & Algorithms, Operating System, Agile Software Development, Artificial Intelligence, Probability & Statistics, Linear Algebra, Discrete Mathematics; Logic, Minds & Machines

## PROFESSIONAL EXPERIENCE

### NYU IT High Speed Research Network

#### Incoming Part-Time Software Engineer

New York, NY

Starting at Sep 2025

- Selected as an undergraduate software engineer on NYU Tandon's VIP Real-Time Applications Team.

### Octavate

#### Software Engineer Intern

New York, NY

Jan 2025 – Apr 2025

- Built a **Next.js + Shadcn UI** analytics dashboard with responsive data fetching, chart visualizations, and an AI chat interface that delivers real-time insights into emerging artists' market value.
- Developed a **full-stack AI chatbot**, integrating **OpenAI API** with backend data and designing an intuitive chatbot UI with suggested prompts to enhance user interaction.

### Origin Dynamic

#### Software Engineer Intern

Beijing, China

Jul 2024 – Aug 2024

- Built the admissions backend with **Spring** and **RuoYi framework**, writing 1,000+ lines of production code to support data collection, normalization, and analysis workflows.
- Designed and implemented an end-to-end **Excel-to-SQL import pipeline** for biomaterial records; built a reusable Apache POI utility to map spreadsheets into Java objects and a secure Spring Boot REST endpoint for file uploads.
- Tested all REST endpoints via **Postman**, maintaining average response times below one second.

## PROJECTS

### Shop@SoHo | TypeScript, React, Vite, Tailwind, Express, MongoDB, Docker, Digital Ocean, GitHub Actions, AWS, Google Maps API

- Built a **full-stack web app** with **Google Maps API** to generate optimized shopping routes for 300+ SoHo stores.
- Engineered **pathfinding** (up to 20 stores per route) and **filtering algorithms** to optimize routes and tailor store recommendations.
- Architected a **serverless pipeline** (AWS Lambda + EventBridge) for weekly MongoDB data refreshes, and established a **CI/CD workflow** (GitHub Actions, Docker) deploying containers on DigitalOcean.

### Google Developer Group @ NYU – ASL Learning Platform | Python, Mediapipe, OpenCV, Kaggle API

- Engineered real-time recognition (99.76% accuracy) of 36 ASL symbols (A–Z, 0–9) using hierarchical CNNs and live webcam input.
- Delivered adaptive feedback for personalized learning progression by integrating OpenCV frame capture with TensorFlow inference.
- Automated dataset acquisition and project packaging via a Python CLI (Kaggle API) and setuptools—handling credential management, extraction, cleanup, and one-step installation.

## LEADERSHIP & COMMUNITY

### NYU Chinese Students and Scholars Association

#### Head of External Affairs

New York, NY

Sep 2022 – Present

- Directed the External Affairs Department; delegated team responsibilities and managed onboarding and ongoing support for 20+ corporate sponsors.
- Initiated sponsor discussions and secured over \$50K in sponsorship revenue for NYU's largest Chinese Student Association.
- Negotiated six exclusive sponsorships with leading firms across various industries, including insurance, rentals, telecommunications, and visa services, ensuring reliable event funding.

## SKILLS

**Languages:** Python, Java, JavaScript, TypeScript, C, SQL, Bash, HTML/CSS

**Full Stack Development:** React, Node.js, Express, Spring Boot, MySQL, MongoDB

**DevOps & Tools:** Git, Docker, Postman, Figma, DigitalOcean, UNIX/Linux

## CERTIFICATIONS

**Bloomberg** Tech Insights Summer School (Jun 2025)

**CodePath** Intermediate Technical Interview Prep (Jun 2025)