

# VENETIA LIU

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## EDUCATION

### New York University

*B.A. in Computer Science, Minor in Data Science*

New York, NY

*Expected 2026*

- **Coursework:** Object Oriented Programming, Agile Software Development & DevOps, Data Structures, Algorithms, Operating Systems, Data Management & Analysis, Front-End Web, Linear Algebra, Discrete Mathematics, Calculus II
- **Activities:** Google Developers Group (Marketing Lead), Tech@NYU (Mentorship), Marketing Society (Marketing Lead)

## PROFESSIONAL EXPERIENCE

### RGTN Corporation B.V.

*Software Engineer Intern*

May 2025 - Present

*New York, NY*

- Migrated a Perl-based payment module to a Python microservice using Docker, gRPC, Flask, and Helm.
- Implemented webhook handling, signature verification, and transaction processing with Stripe API.
- Implemented unit and integration testing using Jest and React Testing Library. Adopted CI/CD practices with GitHub Actions to automate testing and deployment, ensuring high code quality.

### LiTV

*Data Science Intern*

June 2024 - August 2024

*Taipei, Taiwan*

- Conducted data analysis using *Python* and *SQL*, developing *machine learning models* that predicted user revisitation with 83% accuracy.
- Designed high-fidelity *UX prototypes* and *wireframes* for OTT platforms, increasing CTR and conversion rates by 30%.
- Designed and executed *A/B testing* for a new feature to achieve higher user traffic and engagement, increasing user retention by 15%.

### Octavate

*Software Engineer Intern*

March 2024 - August 2024

*New York, NY*

- Developed a full-stack interactive website using *Node.js*, *React*, and *Three.js*, increasing user engagement by 30%.
- Automated data pipelines with *Python* (*BeautifulSoup* & *Selenium*) and *SQL*, improving data efficiency by 90%.
- Prototyped generative AI solutions with *Hugging Face*, *BERT*, and *Llama*, increasing NER accuracy for artist risk analysis by 20%.

## PROJECTS

### Heart Spot

Next.js, MongoDB, Clerk, TypeScript, Tailwind, Mapbox

- Developed a full-stack interactive map app for sharing heart-shaped object sightings, with a MongoDB database and a Next.js frontend.
- Includes advanced features such as OAuth, photo uploads, geolocation tagging, and real-time map updates.

### Interactive Q&A Website

React, JavaScript, Node.js, Spline, AWS, Flask

- Developed a full-stack interactive web application leveraging the *OpenAI API* for personalized Q&A functionality with a responsive 3D interface with *React* and *Spline*.
- Implemented scalable backend logic using *Flask* and *Node.js* to handle real-time API requests, deployed and managed environments on *AWS*.

### Stock Price Dashboard

React, Vite, Tailwind CSS, Chart.js

- Developed a responsive stock dashboard website with *Finnhub API* that displays real-time financial data with search functionality, interactive charts, and error handling.

## COMMUNITY & LEADERSHIP

### Google Developer Groups @ NYU

*Marketing Lead*

September 2024 – Present

*New York, NY*

- Led a UI/UX redesign project for the organization's website, increasing average session duration by 80%.
- Designed and executed 3 successful campaigns, increasing engagement by 70%.

## TECHNICAL SKILLS

**Languages:** Java, Python, C, C#, JavaScript, HTML/CSS, PostgreSQL, R, MySQL

**Frameworks:** React, Next.js, Angular, Node.js, Tailwind

**Tools:** MongoDB, Docker, AWS, Flask, Spline, Three.js, Selenium, Git, Figma, Google Analytics

**Concepts:** Software Engineering, Full-Stack, Frontend, Backend, User Experience, Data Analysis