VENETIA LIU

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EDUCATION

New York University   **New York, NY**
B.A. in Computer Science, Minor in Data Science   *Expected December 2026*
- **Coursework:** Agile Software Development & DevOps, Front-End Web, Data Management & Analysis, Object Oriented Programming, Data Structures, Algorithms, Operating Systems, Linear Algebra, Discrete Mathematics, Calculus II
- **Activities:** Google Developers Group (Marketing), Tech@NYU (Mentorship), Rewriting the Code, Marketing Society (Marketing)

PROFESSIONAL EXPERIENCE

Quanticore   **July 2025 - Present**
Software Engineer Intern   *New York, NY*
- Built cross-platform behavior logging and student management features for a K–12 MVP in **React Native** and **Expo** (**TypeScript**), integrating **GraphQL API** and aligning schema with backend.
- Implemented **Firebase** Authentication with protected routing and role-based permissions, and integrated **Apollo Client** caching and component updates to optimize list-heavy views, ensuring scoped access and reducing duplicate requests.
- Designed and translated user flows, information architecture, wireframes, and high-fidelity prototypes into dev-ready specs with **Figma**, aligning behavior across web and mobile.

RGTN Corporation B.V.   **May 2025 - August 2025**
Software Engineer Intern   *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**.
- Integrated unit & integration tests into the CI/CD pipeline and **GitHub Actions**, enabling automatic execution on pull requests.

LiTV   **June 2024 - August 2024**
Data Science Intern   *Taipei, Taiwan*
- Conducted 10+ **Python & SQL** data analyses to refine audience segmentation and targeting and validate data-quality fixes through **A/B testing**, raising advertisement delivery accuracy by 28%.
- Improved legacy machine learning models (**KNN & Random Forest classifiers**) in Python (**scikit-learn**) for 90-day revisit prediction via feature engineering, increasing cross-validated accuracy by 12%.
- Mapped UX pain points for the company's OTT web app; delivered a data-backed redesign plan and **high-fidelity prototype**.

PROJECTS

Smile Spot   **Next.js, MongoDB, Clerk, TypeScript, Tailwind, Mapbox**
- Developed a full-stack web app for sharing smile-shaped object sightings, with a **MongoDB** database, **Next.js** frontend, **Clerk** authentication, and **Mapbox API** for interactive map visualization.
- Implemented **OAuth 2.0**, photo uploads, geolocation tagging, and real-time map updates.

Portfolio AI Chatbot   **React, Flask, JavaScript, Python, Spline**
- Developed a full-stack portfolio chatbot leveraging the **OpenAI API** for personalized Q&A functionality with a responsive 3D interface with **React** and Spline**,** and **Flask** backend for low-latency Q&A.

LEADERSHIP & COMMUNITY

Microsoft   **July 2025 - August 2025**
Emerging Leaders for College Students Program   *Remote*
- Secured a spot in the highly competitive cybersecurity leadership and career-readiness program led by Microsoft Security, ranking in the top 7.3% out of 1,300+ applicants.

Google Developer Groups @ NYU   **September 2024 – Present**
Marketing Lead   *New York, NY*
- Led a UI/UX redesign project for the organization's website, increasing average session duration by 80%.
- Created data-driven brand and content strategy guidelines from audience behavior analysis; standardized brand voice and posting schedule, increased user engagement by 70%+.

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, TypeScript, HTML/CSS, PostgreSQL, MySQL
Frameworks: React, React Native, Next.js, Angular, Node.js, Expo, Apollo(GraphQL), Tailwind
Tools: MongoDB, Docker, AWS, Flask, Git, Figma, Spline, Three.js, Selenium, Google Analytics