Xi (Sophia) Chen

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EDUCATION

Georgia Institute of Technology | *B.S. in Computer Science & B.S. in Mathematics*   *Aug 2021 – Dec 2025*
- **GPA:** 3.7 (Dean's List)
- **Selected Courses:** Object-Oriented Programming, Computer Systems and Networks, Computer Architecture, Algorithms (Honors Level), Database, Robotics Perception, Machine Learning, Computer Vision, Mobile Apps and Services

PROFESSIONAL EXPERIENCE

Verio Labs | *Software Engineer Intern*   *May 2025 – Present* | **Palo Alto, CA**
- Developed a **Twitter(X) AI agent** by integrating **self-RAG orchestration** and a **multi-agent aggregator** to generate and schedule domain-specific news, serving the company's **240K+** existing audience through **high-quality content delivery**.
- Engineered prompt-driven **scheduled posting** and **LLM-based smoothing** to handle incomplete sources, ensuring **uninterrupted insight delivery** across diverse data streams.
- Implemented **historical content tracking** to avoid redundancy and maintain content diversity to **improve users' engagement**.
- Containerized the full pipeline with **Docker** and deployed on **GCP** to enable reliable operations across multiple environments.

GooseCart (Create-X) | *Co-Founders & Lead Software Developer*   *Feb 2024 – Present* | **Atlanta, GA**
- Led 10-person team to build a cross-platform mobile app (**React Native**, Swift, Android) with **GCP**-based **Java MVC** backend.
- Built full-stack architecture with **REST** APIs; set up **CI/CD** pipeline and managed via **Jira/GitHub** for version control.
- Conducted **A/B testing and iterative refinement** based on insights from **500+ early users**, accelerating product-market fit through real-world feedback loops and data-informed design decisions.
- Earned **top 5% in Y Combinator** Summer 2024, Georgia Tech Create X, and Johns Hopkins Incubator Awards.

Hirebeat Inc. | *Software Engineer Intern*   *Jul 2024 – Aug 2024* | **New York City, NY**
- Developed and maintained backend infrastructure using **Django, AWS(Lambda, S3), and LangGraph** to power an **automated email responder** for handling product-specific user queries at scale.
- Built **self-RAG logic** and **dynamic flow** to generate accurate replies to questions, enhancing trust and personalization. Designed to support **2K+ small to mid-sized organizations** by reducing manual support load and streamlining the onboarding process.

Georgia Institute of Technology | *Research Assistant at ACT Lab*   *Jan 2023 – Aug 2024* | **Atlanta, GA**
Human-Machine Interface (HMI) Project (used in local **Waymo** Testing Facilities):
- Engineered **network protocols** using **UDP** for real-time data transfer across **5 lab servers** for **real-time** driving alert system.
- Developed a real-time vehicle navigation system in **Unity** and **C#** for driving simulations, including map construction.
- Created a simulated **smart city** system on HMI interface with high efficiency, successfully deployed for **Waymo ADAS** testing.
Machine Learning for Cybersecurity Project:
- Conducted advanced machine learning analysis on approximately **4 million datasets** for hacking detection, achieved a model accuracy of **95%** and progressing toward academic publication.
- Utilized **Python** with **PyTorch** and **TensorFlow** for constructing **Convolutional Neural Networks** and adversarial data sampling.

Freetech Intelligent System | *Software Engineer Intern*   *May 2023 – Jul 2023* | **Shanghai, China**
- Enhanced systems and algorithms for backend operations and intelligent driving simulations for a **car-play embedded system**.
- Designed a **multi-layered driving simulation** in **Python** to automatically generate **XML scripts** in **Open Drive** and **Open Scenario** formats, modeling both static and dynamic environments in **Carla**.
- Developed specialized tooling for **high-risk scene simulation**, enabling safer driving assistance for **Volvo** and other companies.

PROJECTS

Hacklytics 2024 (Hackathon) | *Travel bot AI Hotel Recommender*   *Feb 2024* | **Atlanta, GA**
- Led **backend development** and **project management** for integrating APIs into a web application using a **Flask** server and trained traversal and Gemini GPTs with **million-scale** datasets in **Python**.
- Advanced to the **final round** of Hacklytics 2024, earned recognition for innovative AI recommendation capabilities.

Campus Discovery Web Application   *Sep 2022 – Dec 2022* | **Atlanta, GA**
- Implemented **Java-based MVC architecture** with **Spring Boot** and **DAO** patterns, enabling connection and operations for the MySQL database to the frontend components.

SKILLS & INTERESTS

Programming Languages: Python, Java, C, C#, Swift, Kotlin, JavaScript, TypeScript, SQL, HTML, CSS, PHP
Frameworks & Tools: React, Flask, Spring Boot, Unity, PyTorch, Pandas, Docker, Jira, GitHub
Technologies & Methods: Google Cloud, AWS**,** RAG & Automated System, Prompt Engineering**,** RESTful APIs, MVC architecture, SaaS, Network Protocol, Terraform, CI/CD, Agile