# Minyi (Naomi) Liu

Portfolio site: <a href="https://naomisportfolio.vercel.app/">https://naomisportfolio.vercel.app/</a>

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### **EDUCATION**

# **University of California, Berkeley (Senior Standing)**

2022 - 2025

Bachelor of Art in Computer Science

• GPA: 3.94/4.0

• Related coursework (A or A+): The Structure and Interpretation of Computer Programs, Data Structures, Computer Architecture, Introduction to Machine Learning.

## TECHNICAL SKILLS

Programming Languages: Python, Java, C, HTML/CSS, SQL, JavaScript, Scheme

**Tools/Technologies**: Django, RESTful API, Pandas, OpenCV, PyTorch, Scikit-learn, LangChain, Linux, Kubernetes, Docker, Helm, AWS, Arduino, NumPy, GitHub, Selenium, IntelliJ, React, Next.js, Bootstrap, Framer Motion

# **EXPERIENCES & PROJECTS**

#### **SRE Intern**

Tencent Holdings Ltd | Shenzhen | May. 2024 – Aug. 2024

- Designed and implemented a cloud hosting O&M system using **Django** and **Vue**. Functions include host information pulling and querying, host file querying and backup, backup record querying, as well as tracking and visualizing website operation and development metrics.
- Developed an AI Assistant SaaS with streaming dialog interface using **DRF** and **LangChain**.
- **Fine-tuned** LLM to increase output accuracy and stability for **PromQL generation** and enabled **user guidance** by implementing complex **pipelines**, **prompt engineering**, and **memory management**.
- Deployed SaaS using **Helm** charts and **Kubernetes** ensures efficient and stable service operation.
- Use **DevContainer** and **Dockerfile** to standardize the project development environment, making the establishment of the development environment more concise and efficient.

### **Software Engineer**

Plant Gene Expression Center, Professor Jennifer Lewis's Lab | Albany | Sep. 2023 – Dec. 2023

- Designed and constructed an innovative sideview camera system, utilizing Raspberry Pi and camera module IMX219
- Developed **automated testing script** to fine-tune system parameters, ensuring high-resolution and accurate image capturing.
- Devised an image processing system using **OpenCV** to preprocess and analyze raw image data.
- Developed algorithms capable of identifying plant immune responses using **PyTorch** and **Scikit-learn**.

# **Software Engineer For Club Project**

QuanTech Quantitative Financing Software | Berkeley | May. 2023 – Aug. 2023

- Developed a robust continuous data retrieval system and interactive trading models visualization, leveraging
  JFreeChart, Java Swing, AWT, and the Interactive Brokers API to enhance trading decision-making
  processes.
- Designed and implemented high-efficiency **data structures** specifically tailored for optimizing the storage and retrieval of stock information, significantly improving system performance and scalability.

### Freelance Full-Stack Engineer

Zhou Shen's Fanclub | online | Dec. 2021 – May. 2022

- Identified and understood the client's challenges in arranging the reward system for a large organization, and proposed a membership management website as solution
- Guided the group to conduct Agile practices by breaking down project into smaller features and encouraging regular feedback from client.
- Developed Reward Points Balance Tracking feature using HTML, CSS, Django and MySQL.
- Implemented features such as membership rewards redemption, points expiration system, lottery system, and web admins system.
- Achieved average daily visits 1800+, 100000+ data in database, 15000+ users.