

# Vincent Liu

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## Experience

- UXLy

Software Engineer, Machine Learning Intern

Jan - May, 2025

San Francisco Bay Area, Remote

  - Demonstrated ability to take initiative and work independently on assigned tasks
  - Managed personal workload effectively, meeting deadlines and expectations
- UCSC Baskin School of Engineering

Reader

Jan - Mar, 2025

Santa Cruz, CA

  - Evaluated and provided feedback on student assignments related to software engineering principles, including Agile and Scrum

## Education

- University of California, Santa Cruz

Bachelor of Science - B.S. Computer Science

2021 - 2025
- EL Cerrito High School

High School Diploma

2017 - 2021

## Relevant Coursework:

Programming Languages & Tools	Software & Web Development	Theory / Foundations
C / C++ Programming Assembly Language and Lab Abstract Python Introduction to Computer Graphics	Full Stack Web Development I Software Design Project I + II + III Software Design Project IV (Accel.) Engineering Principles of Electronics Computer Systems Design	Data Structures and Algorithms Introduction to Algorithm Analysis Cryptography Computer Architecture Computational Models

## Projects

- Cognoso: AI Driven Flashcard Generator

Typescript, React, Node.js, LlamaParse, LlamaIndex

  - Website for students to create and manage flashcards for studying. Features include PDF text extraction, Automated Flashcard Generation, and a Chatbot that answers questions based on provided PDFs (e.g., textbooks).
- UXLy Multi-tool Customer Support Chatbot:

Typescript, Node.js, LlamaParse, LlamaIndex, LangChain, LangGraph

  - Multi-Tool AI Chatbot that Manages dialogue context, Offers product recommendations, and Handles order management.
- SecureAI: GitHub Repository Vulnerability Scanner

TypeScript, Python, React, Node.js

  - Full-stack tool to scan public GitHub repositories for security vulnerabilities and malicious files using Gemini and GPT models
  - Allows Users to visualize vulnerabilities by severity, along with AI-generated explanations and recommended fixes
  - Automates code review and threat detection across diverse codebases
- NoteSheet Editor: Exam CheatSheet Generator

Python, JavaScript, React, ReportLab

  - Utilizes backend algorithm inspired by 2D knapsack problem to optimize whitespace usage and layout efficiency for PDF generation
  - Developed a React + TypeScript frontend with a clean, interactive UI for note entry, real-time formatting preview, PDF generation, and structured export
- Handwritten-Digit-Recognition:

Python, PyTorch,

  - Utilizes a Convolutional Neural Network (CNN) built with PyTorch to recognize handwritten digits from the MNIST dataset

## Skills & Achievements

- **Skills:** Team Leadership, Communication, Adaptability, Problem Solving, Quick Learner

• **Programming Languages:** Python, C, C++, JavaScript (JSX), TypeScript (TSX), Haskell, Assembly, SQL

• **Frameworks & Tools:** React, Node.js, Express.js, Flask, WebGL, Docker, Figma, FastAPI, PyTorch, ReportLab
- **Web & DB Technologies:** HTML5, REST APIs, PostgreSQL

• **Software Principles:** Agile & Scrum, TDD

• **Language Proficiency:** English, Burmese (Bilingual), Japanese (Certified Bilitracy)

## Honors, Awards, and Certificates

- **Practical Introduction to Quantum-Safe Cryptography** — Issued by IBM, Feb 2025
- **Information Systems Design and Management** — Issued by Information Technology Academy, Jun 2021
- **State Seal of Bilitracy (Japanese)** — Issued by State of California, Jun 2021