

Victoria Hannah Liu

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EDUCATION

Carnegie Mellon University

Bachelor of Science in Computer Science, Concentration in Machine Learning

GPA: 3.71/4.0

Pittsburgh, PA

Aug 2024 - May 2028

TECHNICAL SKILLS

Skills: C, Python, C++, JavaScript, HTML, CSS, Assembly, Bash, PHP, Django, PostgreSQL, Docker, Kubernetes

Courses: Parallel Data Structures and Algorithms, Computer Systems, Algorithms and Theoretical Foundations, Human-AI Interaction, Probability, Discrete Mathematics

EXPERIENCE

Software Engineer Intern

ServiceNow, AI Control Tower Team

Software Developer

Turing

May 2026 - Aug 2026

Santa Clara, CA

July 2025 - Oct 2025

Palo Alto, CA

- Built internal dashboards with **Django & REST APIs**, streamlining team management and cutting coordination time by 25%
- Engineered** scalable UI flows and backend integration, ensuring the app can reliably support **4,500+ concurrent users** during planned scale-up.
- Implemented advanced search, filtering, and pagination, reducing data retrieval latency by 30% across large datasets.
- Deployed **real-time JSON endpoints**, boosting system responsiveness for distributed teams and improving reliability of cross-team data sync.

Software Developer Intern

Wealthmeup.ai

May 2025 - July 2025

Lewes, DE

- Spearheaded automated **Slack alert system** monitoring account balances, eliminating manual checks and cutting response delays by **50%**.
- Engineered Python scraping pipelines that aggregated multi-source outreach data, increasing lead generation efficiency by **40%**.
- Partnered with product & growth teams to design new app features, supporting backend monitoring, user adoption, and launch strategy.

Software Developer

ScottyLabs

January 2025 - Present

Pittsburgh, PA

- Developed an SSO-enabled rating & review system, storing **1,000+ feedback entries in MongoDB** and improving CMUEats usability.
- Collaborated in a 7-person team to scale CMUEats PWA, serving 3,000+ monthly users with live dining availability across CMU.
- Integrated DiningAPI to scrape data from **20+ dining sites**, distributing it via a RESTful API for real-time updates across clients.

Teaching Assistant, 15-150: Principles of Functional Programming

Carnegie Mellon University

Jan 2026 - Present

Pittsburgh, PA

- Lead weekly recitations and office hours for a proof and code intensive course in Standard ML (SML)
- Guide students through functional programming concepts including recursion, higher-order functions, cost analysis (work/span), and inductive proofs.

PROJECTS

Music in the Neighbourhood Webpage | HTML, CSS, Javascript, PHPmailer, Git

April 2023 - present

- Designed and developed a responsive full-stack website from scratch using **HTML**, **CSS3**, and **JavaScript** to showcase Music in the Neighbourhood's mission, events, and media.
- Integrated **PHP** to handle form submissions and manage backend functionalities, enhancing user interaction and data management by **10%**.
- Implemented SEO best practices to boost visibility and drive traffic to the site, resulting in a **15%** increase in user engagement.

SightBridge | React Native, CSS, Python, FastAPI, OpenCV, YOLO

February 2025

- Developed SightBridge, a full-stack meditation app, using **React Native** and **FastAPI** leveraging Computer Vision and AI to bridge the gap between technology and accessibility.
- Integrated **Google Maps Directions API** and **OpenAI** to provide real-time navigation assistance with a 90 % accuracy rate in object detection.

CMUEats - Full-Stack Dining Availability Web App | React, TypeScript

April 2025

- Spearheading a separate DiningAPI in Node.js/Bun that scrapes live ice cream flavours and delivers it as a RESTful API