

Ayden Xu

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EDUCATION

Carnegie Mellon University

June 2026

Bachelor of Science in Information Systems

Pittsburgh, Pennsylvania

- Relevant Coursework: Data Structures, Intro to ML, Intro to Deep Learning, Natural Language Processing, Database Design, Linear Algebra, Discrete Math, Probability Theory, Statistics

SKILLS

Languages/Frameworks: Python, Java, C, React, HTML, CSS, Javascript, Swift, SQL, Streamlit, Flutter

Technologies: Git, MySQL, AWS Cloud, Typescript, Langchain, Hugging Face, GPT4, Figma, Adobe CC

EXPERIENCE

LASTWALL NETWORKS

June 2023-August 2023

Associate Software Developer

Fredericton, New Brunswick

- Achieved universal responsiveness for the UI of all devices using React
- Elevated precision of risk based authentication software to 80% through rigorous code testing in Typescript and analysis of user datasets such as keystroke cadence with PostgreSQL
- Adhered to NIST compliance guidelines throughout the entire development process
- Actively engaged in cross-functional team sprints and daily scrums in an Agile environment

PROJECTS

Portfolio | [Github](#) | [Link](#) | (React, MaterialUI)

Aug 2023

- Built a minimal and responsive portfolio from scratch using React

GenAI | [Diagram](#) | [Github](#) | [Link](#) | (Streamlit, OpenAI, Langchain)

Jun 2023-Jul 2023

- Utilized Langchain as the orchestration framework for integrating GenAI models and APIs together for unique functionalities
- Explored GPT4 function calling capabilities using web services such as SerpAPI and RapidAPI
- Applied GPT4 prompt engineering to fine tune and optimize model responses
- Utilized Streamlit as the frontend to showcase the outputs of the application demos

Amplify Web App | [Github](#) | (AWS Cloud, Next.js, CRUD)

Dec 2022

- Full-stack app using Next.js as frontend with CRUD functionalities using AWS
- Datastore used to create data models and Amplify to host the web app
- Implemented authentication with Cognito and file storage on S3

Penguin Shooter | [Demo](#) | [Code](#) | (Python, Tkinter)

Oct 2022

- 2D Survival game featuring a penguin made in Python
- Implemented pathfinding algorithms for the enemy, and projectile motion for the bullets
- Utilized Object-Oriented Programming to better track player and enemy properties

EcoEye | (Mobile) | [Demo](#) | (Flutter, Firebase, IBM Watson)

May 2020

- Used Google Image and IBM Watson APIs to label and classify various waste after taking or uploading an image. Used Firebase as the database for storing past snapshots.
- Developed the frontend with Flutter which is compiled to run on both Android and iOS.
- Awarded with President's Environmental Youth Award