

Hao Shen

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EDUCATION

University of Michigan

B.S.E. in Computer Science

Ann Arbor, MI

Aug. 2024 – May 2026

- Relevant Coursework: EECS 482 (Introduction to Operating Systems) (planned Winter 2026)

University of Connecticut

B.S.E. in Computer Science

Storrs, CT

Aug. 2022 – May 2024

EXPERIENCE

Undergraduate Research Assistant

University of Michigan, FEAST Project

February 2025 – Present

Ann Arbor, MI

- Developed GUI for research project, converting vague need into real GUI that is usable
- Utilize Shell integration(Python) to automate the running process of Sane
- Using tkinter to make the GUI

Software Engineer Internship

Guangzhou Jiuheng

Jun. 2024 – Aug. 2024

Guangzhou, China

- Design and Build frontend on internal management application
- Reduced operational overhead by automating workflows, freeing up 50+ personnel
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PROJECTS

Feynman learning Agent Web App | *React, FastAPI, PostgreSQL, Docker, LangGraph*

May. 2025 – Present

- Developed a full-stack web application using with FastAPI serving a REST API with React as the frontend
- integrated NLP model to lower of cost of identify complex sentences
- built-in web scrapy tool to automate fetch lecture transcripts
- deployed on AWS and can handle high concurrency

DistilBert on word complexity | *NLP, MLops, Data Pipelines*

Apr. 2025 – Present

- developed a pipeline on auto training model with updated Data
- collecting data and use Labeling Functions to quickly finish data preprocessing
- training the model using Pytorch on AWS rented GPU
- the model perform 98 percentage of accuracy on predicting the complexity

TECHNICAL SKILLS

Languages: Python, C++, SQL (Postgres), JavaScript, HTML/CSS

Frameworks: React, Node.js, LangChain, LangGraph, FastAPI

Developer Tools: Git, GitHub Actions, Docker, Google Cloud Platform, LangSmith

Libraries: pandas, NumPy, PyTorch, scikit-learn, Matplotlib