

Hugo Fang

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EDUCATION

Dartmouth College

B.A. in Computer Science, Minor in Math & Japanese

Hanover, NH

Sep 2021 – Jun 2025

- **Major GPA:** 4.0 / 4.0
- **Coursework:** Object Oriented Programming, Algorithms & Data Structures, Computer Architecture, Machine Learning

Shanghai High School - International Division

International Baccalaureate: 44/45

Shanghai, China

Sep 2017 – Jun 2021

SKILLS

Programming Languages: Python, Java, C++, JavaScript, TypeScript, SQL

Frameworks & Tools: React, Node.js, Redux, Git, Postman, JMeter

EXPERIENCES

Black Lake Technologies

Software Engineering Intern

Shanghai, China

Jun 2024 – Aug 2024

- Developed a **Python** program to automate prompt engineering for specified tasks based on a success metric
- Built and fine-tuned a Q&A chatbot on Lark's experimental AI platform Aily, integrated into manufacturing digitalization software used in over 20,000 factories

Greenbox Storage

Software Engineering Intern

Hanover, NH

Apr 2023 – Aug 2023

- Developed an internal app to track reservation statuses, using **Redux** to sync real-time data across instances, and implemented a fail-safe for uploading item storage information
- Constructed an automatic Twilio messaging system in **Node.js** to notify clients about item storage appointments, serving over 1,000 clients with more than 5,000 items stored
- Created a dashboard in **React** to interactively visualize trends in revenue and user statistics, allowing customized sorting, filtering, and downloading of data

4Paradigm

Software Development Intern

Shanghai, China

Dec 2022 – Mar 2023

- Conducted quality assurance for the Intelligent Decision Platform by designing comprehensive edge cases, load testing with **JMeter**, and verifying the platform's data query function, improving speed and accuracy by 20%
- Automated the API feature and performance testing of the Intelligent Decision Platform through Python **asyncio** methods, reducing the preprocessing and uploading time for five million lines of data by 30%
- Updated the tagging and sorting features of a supply chain data platform for Yum China, built with **React**

PROJECTS

Microsoft Part Time Assistant

Software Engineering Intern

Shanghai, China

Jul 2023 – Aug 2023

- Trained a conversation model in **Language Studio** with over ten intents and five entities to extract information from Azure related questions
- Deployed a Python bot to the **Azure Bot Service** that intelligently responds to users' questions and simplifies the process to view and manage Azure resources, reducing familiarization time by 30%

Dartmouth Empower Lab

Researcher and Developer (supervised by Prof. Elizabeth L. Murnane)

Hanover, NH

Mar 2022 – Aug 2022

- Assisted front-end and back-end development of web-based games, using **React** and **Typescript** to integrate voice recognition and image object detection, helping over 50 children become familiar with various AI concepts
- Conducted comprehensive user studies and co-authored a paper submitted to *The ACM Conference on Human Factors in Computing Systems*