

## Hugo Fang

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### EDUCATION

#### Dartmouth College

Hanover, NH

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

*Sep 2021 – Jun 2025*

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

### SKILLS

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

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

### EXPERIENCES

#### Black Lake Technologies

Shanghai, China

*Software Engineer Intern*

*Jun 2024 – Aug 2024*

- Built an LLM-driven conversational assistant on Lark's AI platform **Aily**, answering product-related questions in over 200 factories and generating over 4,000 chats in two months
- Developed a **Python** program to automatically evaluate and suggest improvements to prompts for LLMs based on user-defined success metrics
- Improved prompts achieved over 95% accuracy in converting printed work orders into JSON outputs

#### Greenbox Storage

Hanover, NH

*Software Engineer Intern*

*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

Shanghai, China

*Software Development Intern*

*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

#### Azure Tutorial Bot (Microsoft)

Remote

*Software Engineer Intern*

*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 of viewing and managing Azure resources, reducing familiarization time by 30%

#### AI Spy (Dartmouth Empower Lab)

Hanover, NH

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

*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*