

Hugo Fang

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EDUCATION

Dartmouth College

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

Hanover, NH

Sep 2021 – Jun 2025

- **GPA:** 3.93 / 4.0 (Major GPA: 4.0/4.0)
- **Honors:** Magna Cum Laude, Second Honor Group (Top 15%)
- **Coursework:** Machine Learning and Statistical Data Analysis, Linear Algebra, Computer Networks, Database Systems

SKILLS

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

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

EXPERIENCES

Black Lake Technologies

Software Engineer Intern

Shanghai, China

Jun 2024 – Aug 2024

- Built and deployed an enterprise-scale LLM-powered assistant with a **React** frontend UI, processing over 2,000 monthly client inquiries in 200+ factories, reducing response time by 70%
- Engineered an **Autogen**-based automated prompt optimization pipeline with A/B testing and quantitative performance analytics across user-defined dimensions, decreasing manual testing time by 80%
- Built a document digitization system integrating computer vision and LLMs, converting written work orders into JSON data via **Spring** microservices with 95% accuracy, saving factory staff 50 hours of manual data entry weekly

Greenbox Storage

Software Engineer Intern

Hanover, NH

Apr 2023 – Aug 2023

- Developed an internal app to streamline reservation tracking, using **Redux** to ensure data consistency across app instances
- Constructed a scalable notification service using **Node.js**, serving over 1,000 clients with more than 5,000 items stored
- Created a real-time data analytics dashboard in **React** to interactively visualize trends in revenue and user statistics, supporting customized sorting, filtering, and downloading data

4Paradigm

Software Development Intern

Shanghai, China

Dec 2022 – Mar 2023

- Developed an automated testing framework with **JMeter**, simulating 1000+ concurrent users and identifying performance bottlenecks, leading to a 20% improvement in platform response time
- 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%
- Implemented RESTful APIs and UI components in **React** for Yum China's supply chain platform, handling real-time updates for 1,000+ daily active users

PROJECTS

Microsoft Azure Tutorial Bot

Software Engineer Intern

Remote

Jul 2023 – Aug 2023

- Trained a conversation model in **Language Studio**, defining over 10 intents and five entities to break down and extract information from Azure-related queries
- 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)

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*