

Junhong 'Jun' Liao

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EDUCATION

Columbia University

Bachelor's Degree, Computer Science

New York, NY

Grad. May 2025

Extracurriculars: Columbia in Tech Fellowship, Bain Capital Ventures; Board Member, Columbia ADI

Relevant Coursework: Artificial Intelligence; User Interface Design; Malware Analysis and Reverse Engineering; Theory of Computation; Computer Architecture and Digital Logic Design; Databases (SQL, NoSQL); Probability and Statistics; Discrete Mathematics; Advanced Programming (C, Unix Systems, Networking); Honors Data Structures and Algorithms; Object-Oriented Programming (Java);

PROFESSIONAL EXPERIENCE

Inductive AI

Technical Co-Founder

New York, NY

April 2025 - Present

- Built an AI-powered A/B testing platform leveraging GPT-4 Vision API to simulate user interactions, analyzing 30+ UI/UX metrics including readability, visual hierarchy, click patterns, scroll depth, and conversion likelihood, delivering insights without the traditional overhead costs of real user traffic
- Architected a full-stack TypeScript application (React, Vite, shadcn/ui) featuring a simulation engine that processes design uploads (PDFs/images), extracts key visual and functional metrics (typography, color schemes, CTA positioning), and generates analytics dashboards for statistical comparison of variants
- Developed intelligent algorithms that generate diverse user personas (varying age, tech proficiency, intent) to simulate step-by-step interactions, accurately reflecting real-world user testing scenarios
- Designed scalable experiment management infrastructure supporting real-time tracking, persistent storage, batch experiment generation, and detailed analytics dashboards for actionable UX improvements

Medidata Solutions

Software Engineer Intern, Sensor Cloud APIs

New York, NY

May 2025 - Present

- Analyzed and architected a plan to address inefficiencies and security risks with internal JavaScript MAuth libraries, identifying critical memory leaks, improper HTTP abstraction, and flawed middleware implementations
- Developed GitHub Actions workflows for internal service (mdsol/leon), automating critical deployment tasks via Python scripts, ensuring seamless execution of registration processes and configuration file handling

UKG Inc.

Software Engineer Intern, Backend

Miami, FL

January 2023 - August 2023

- Led design and implementation (Java, Maven, Spring Boot) of an application to track MongoDB performance for my team's query microservices. Built a data pipeline to create a custom metrics dashboard with Grafana and InfluxDB, and worked directly with engineering and product leads to publish comprehensive API documentation
- Leveraged data and trends from custom metrics dashboard to identify performance bottlenecks and optimize query efficiency with new MongoDB indexes, achieving a ~82% decrease in inefficient queries within the span of 3 weeks
- Built, tested, and shipped API endpoints for a new internal developer tool, introducing search, update, and delete functionality for customer data, projected to streamline operations for 40+ engineering teams

TPG Capital

Summer Investment Analyst

New York, NY

May 2022 - September 2022

- Crafted and presented analyses for a \$320M investment; directly influenced the team's investment committee decisions

J.P. Morgan Chase & Co.

Investment Banking Summer Analyst

New York, NY

June 2021 - August 2021

- Devised and successfully pitched a \$250M strategic leveraged-financing deal for a \$3.2B-dollar-client to senior bankers

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, C, Assembly (x86, MIPS), Scala, Kotlin

Backend: OpenAI, Spring Boot, FastAPI, Django | **Frontend:** React.js, Next.js, HTML5, Tailwind CSS

Cyber Security: FlareVM, IDA Pro, Wireshark | **Databases:** MongoDB, InfluxDB, PostgreSQL, MySQL, Studio3T

Developer Tools: GCP, AWS, Firebase, Git, Kubernetes, Docker, Linux, Grafana, Maven, Postman

Agile: Atlassian Jira, Confluence, Lucidchart, Figma