

Junhong 'Jun' Liao

junhongliao.com | j.liao@columbia.edu | linkedin.com/in/junhongliao | 407.284.8519

EDUCATION

Columbia University

New York, NY

Bachelor's Degree, Computer Science

Relevant Coursework: Artificial Intelligence; User Interface Design; Malware Analysis & Reverse Engineering; Computer Architecture & Digital Logic Design; Probability & Statistics; Computer Science Theory; Databases (SQL, NoSQL); Discrete Mathematics; Advanced Programming (C, Unix Systems, Networking); Data Structures & Algorithms; Multivariable Calculus; Object-oriented programming in Java; C Programming

Extracurriculars: *Columbia in Tech Fellowship*, Bain Capital Ventures; *Board Member*, Application Development Initiative (ADI); *Technical Prep Fellow*, CodePath; *Career Prep Fellow*, Management Leadership for Tomorrow (MLT)

PROFESSIONAL EXPERIENCE

UKG Inc.

Miami, FL

Backend Software Engineer

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 a new API endpoint for a new application, introducing search, update, and delete functionality for customer data, projected to streamline operations for 40+ internal dev teams

TPG Capital

New York, NY

Summer Investment Analyst

May 2022 - September 2022

- Developed a thesis and created underwriting discussion materials for a \$320M commercial real estate investment and defended my recommendation to firm partners during an investment committee meeting
- Employed discounted cash flow and comparable property/transaction analysis in conjunction with market research to evaluate the quality of potential commercial real estate investments
- Assisted four firm partners and the CEO in preparing to speak during the firm's quarterly earnings call

J.P. Morgan Chase & Co.

New York, NY

Investment Banking Summer Analyst

June 2021 - August 2021

- Devised, crafted, and presented a \$250M strategic leveraged-financing deal for a \$3.2B-dollar-client to senior bankers
- Built financial models to assess the feasibility of syndicated and leveraged financing for a diverse range of large-cap clients
- Created and presented regular reports on the state of the public debt/equity capital markets

PROJECTS

Arthub (www.joinarthub.com)

New York, NY

Technical Co-Founder

June 2024 - Present

- Secured a partnership agreement with UAL (#2 globally-ranked art school) to host students' creative portfolios on our app
- Managed a team of three student engineers and led weekly technical meetings to communicate development timelines
- Developed a marketing website to accelerate interest and gather data on user preferences by running A/B tests targeting early adopters to gauge interest in a variety of potential features

Hocus Focus

New York, NY

Founder

September 2023 - December 2023

- Built and published a Chrome web extension for people with ADHD to create a more accessible web reading experience
- V1 featured timekeeping, text highlighting, and dynamic page adjustment with native JavaScript

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, C, Scala, x86 Assembly

Backend: OpenAI, Spring Boot, FastAPI, SQL, MongoDB, InfluxDB, Uvicorn | **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 (API Documentation), Lucidchart, Figma