Yuntian Hou

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Education

Peking University | Beijing, China   **Sep 2022 – Present**

Bachelor of History, Minor in Information Management & Information Systems
Selected courses: Introduction to Computing, Python for Data Analysis, Applied Statistics, Visualizing China

Aoyama Gakuin University | Tokyo, Japan   **Mar 2024 – Jul 2024**

Selected courses: Microeconomics, Applied Probability and Stochastic Processes, IT in Business Applications (all taught in English), Japanese

MITx MicroMasters in Supply Chain Management (Online)   **Mar 2024 – Jul 2024**

Focus: Supply Chain Analytics

PROJECT EXPERIENCE

Cardiovascular Risk Prediction & Population Heterogeneity Analysis   **Mar 2025 – Jun 2025**

- Developed a heart disease risk prediction system using 240k+ CDC survey records, identifying key risk factors via statistical and ML methods
- Designed age-stratified frameworks, mined high-risk variable combinations, and built interaction models to evaluate synergistic effects
- Compared multiple ML models (Logistic Regression, Random Forest, GBDT) to improve medical data modeling and risk stratification

Visualization of Tang Dynasty Poets and Poetry   **Mar 2025 – Jul 2025**

- Built a visualization system for Complete Tang Poems to analyze poets' creative patterns, imagery usage, and social networks
- Preprocessed text (normalization, keyword extraction) with Python, created poet–imagery frequency matrices with simple NLP
- Delivered a data presentation video & poster with six visualization types, enhancing understanding of structured humanities data

Independent AI Content Creator & Community Lead   **Jul 2025 – present**
Xiaohongshu (Red Note)

- Content Creation & Technical Communication: Spearheaded an AI-focused education channel, publishing $50+$ in-depth tutorials on LLM fundamentals, AI-native coding (e.g., Cursor, Trae), and Prompt Engineering. Amassed a following of $10,000+$ users by translating complex AI logic into intuitive, visual-driven guides.
- Knowledge Product Development: Authored and launched the "Gemini 3 Pro Comprehensive Mastery Manual," deconstructing model architectures, long-context windows, and multimodal capabilities. Achieved $400+$ paid sales, demonstrating strong market intuition and the ability to define high-value digital products.
- Community Management & Ecosystem Growth: Orchestrated a specialized AI community of $500+$ members. Facilitated daily industry analysis and technical Q&A, establishing a high-retention funnel that successfully converted organic content traffic into an engaged community ecosystem.
- Data-Driven Iteration: Leveraged platform analytics to perform user profiling, iteratively refining prompt templates and pedagogical pathways. Improved the engagement-to-reach ratio (Likes & Saves) to a level 25% higher than the industry average for educational content.

ScholarScout: AI-Powered Academic Identity Verification & Data Tool   **Oct 2025 – Present**

- Key Achievements & Impact:
- Massive Efficiency Gain: Transformed the faculty research process for academic consulting; reduced manual verification time per department from 2 hours to 5 minutes, delivering a 20x productivity boost.
- User Growth & Adoption: Successfully served a user base of 50+ students and academic consultants, facilitating the accurate collection and verification of over 1,000+ professor profiles.
- Solving Real-World Ambiguity: Engineered an intelligent matching algorithm to resolve "Same-Name Ambiguity," accurately distinguishing between researchers in different fields (e.g., Medical vs. Anthropology), achieving enterprise-grade data precision.

- End-to-End Automation: Integrated DeepSeek LLM to automate the entire pipeline—from web scraping to the generation of professional research summaries in both English and Chinese, significantly lowering the barrier to critical academic information.

INTERNSHIP EXPERIENCE

Consulting Project Intern
Deloitte China | Beijing, China   **Aug 2025 – Nov 2025**
- Large-scale System Implementation & Digital Transformation:
- Actively participated in the full-lifecycle implementation of a Sales Planning and Reporting (SPR) system for a large-scale multinational client, encompassing development, User Acceptance Testing (UAT), and official Go-live.
- Conducted continuous performance monitoring and optimization post-launch to ensure system stability and efficiency.
- Business Requirement Analysis & Strategic Alignment:
- Supported the IT department's digital transformation by conducting and synthesizing internal stakeholder interviews to capture precise business requirements and system pain points.
- Ensured the technical system design remained highly aligned with the client's long-term strategic objectives and operational workflows.
- Data-Driven Growth & Investment Optimization:
- Assisted in developing data-driven growth strategies and optimizing investment allocations through quantitative analysis and business intelligence insights.

Strategic Analysis Intern
Microsoft - Developer Division, STCA| Suzhou, China   **Nov 2025 – Precent**
- Market Research & Competitive Intelligence: Conducted in-depth research on the AI-native IDE market (e.g., Cursor, Trae, Windsurf) and the evolution of AI Coding Agents. Authored $10+$ deep-dive reports on developer behavior, identifying GitHub Copilot's competitive advantages in multi-file editing and sophisticated context awareness.
- User Growth & Data Analytics: Leveraged SQL and Power BI to analyze active user behavior and extract key retention metrics for Copilot. Collaborated on optimizing the developer onboarding flow, resulting in a 15% increase in conversion rates for targeted feature modules.
- Product Strategy & Feasibility: Formulated strategic frameworks for AI-native workflows within the developer ecosystem. Provided feasibility assessments for integrating Copilot plugins into complex enterprise-level projects, delivering direct briefings to Product Managers and Engineering Leads.
- Cross-functional Collaboration: Bridged communication between Product Management and Engineering teams by translating market feedback into high-priority roadmap requirements, driving the decision-making process for 2 key feature iterations.

SKILLS
- Programming & Data Analysis: Python, SQL, Power BI
- Software & Tools: ERP systems, Microsoft Office Suite
- Languages: English (Fluent, TOEFL Reading 30, Listening 28), German (Basic)