

Yan (Yves) Yang

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EDUCATION

University of Chicago

Master of Science in Computer Science, GPA: 3.88/4.00

Chicago, IL

December 2023

Wake Forest University

Master of Science in Accounting Analytics (Transaction Service Concentration), GPA: 3.88/4.00

Winston-Salem, NC

December 2020

Honors: Graduated with Distinction, Beta Gamma Sigma Honor Society

Central University of Finance and Economics

Bachelor of Management (Accounting Concentration), GPA: 87.59/100

Beijing, China

May 2019

Honors: Graduated with Distinction

PROFESSIONAL EXPERIENCE

Fenghe Smart Robotics

Product Manager Intern

Xi'an, China

March 2022 - August 2023

- Conceptualized and executed the roadmap and product development for an innovative fruit harvesting application, addressing the market gap in mechanized fruit picking, and championing a solution that is both environmentally conscious and resource-efficient.
- Orchestrated daily collaborations with a technical team of 8 engineers and designers, ensuring the seamless integration of robotic hardware and software components related to navigation, detection, and operation.
- Facilitated iterative testing and refinement of the robot's detecting algorithm and gripping mechanism, optimizing its ability to delicately harvest fruits without damage, resulting in a 50% processing time reduction per target fruit.
- Pitched and launched the product in 2 fruit cultivation zones, monitoring performance metrics and gathering user feedback for ongoing product enhancements and scaling, ultimately securing a \$700K new investment.

Deloitte & Touche LLP

Senior Assistant, Audit & Assurance - Banking & Capital Markets

New York, NY

January 2021 - February 2022

- Digitized risk assessment and internal control evaluation using the Omnia AI platform. Streamlined procedures and reduced task duration by 50% through work automation and analytics tools on 3 complex balance tests and inter-company transactions.
- Coordinated project collaborations across 5 countries and 4 distinct service lines. Served as the main liaison with client's CFO office and multiple departments. Proactively addressed inquiries, resolved issues, and ensured punctual delivery of services.
- Focused on capital market clients with over 10 global entities and over \$70B total assets. Utilized extensive experience in US GAAP & IFRS Financial Reporting and SEC filings to deliver over 20 high-quality financial reports and 2 due diligence reports.

National Bureau of Statistics

Data Analytics Intern, The Fourth National Economic Census Team

Xi'an, China

February 2019 - March 2019

- Analyzed over 800 local firms' raw operational and financial data using Python, unveiling business trends and growth prospects through strategic analysis, providing a regional SMEs overview and robust foundation for informed policy-making.
- Achieved a 70% acceptance rate among the researched business owners for a report on augmenting business performance.

ICBC Credit Suisse Asset Management Co., Ltd.

Intern, Asset Management

Beijing, China

August 2018 - October 2018

- Processed data on capital prices and debt market, generating 11 weekly reports and 3 monthly reports, thereby providing portfolio transparency and accountability to stakeholders and facilitating strategic planning and portfolio selection process by senior leaders.
- Performed financial due diligence and analysis on two companies within the TMT and Biotech sectors, resulting in evidence-based reports and recommendations that directly influenced investment decisions, and ultimately driving the portfolio growth.

SearchSino Market Research

Part-Time Analyst, Operation & Research

Xi'an, China

July 2015 - August 2018

- Designed and implemented data collections and quality controls, including 10 interviews, over 20 focus group sessions, and surveys with over 1K consumers covering projects including consumer goods, technology, automotive, and energy industries.
- Conducted qualitative and quantitative research on customer feedback, business metrics, and market data to identify trends, patterns, and produce actionable insights. Notably, a new store site proposal was adopted by the client and led to record-breaking earnings in the subsequent year.

PROJECTS ([Complete Portfolio](#))

Efficiently.ai — A Generative AI Toolkit to Boost Work Efficiency (In Progress)


September 2023 - Present


- Crafted and deployed a customized chatbot with capabilities to engage in conversations based on user provided unstructured text documents, video URLs, and web links, complemented by advanced functionalities for chart generation.
- Executed the development by seamlessly integrating a combination of AI techniques, including configuring chains, implementing retrieval augmented generation, and leveraging the power of langchain, OpenAI API, unstructured.io, and streamlit framework.


ZipEstate — A Big Data Architecture and Application on US Real Estate Market (In Progress)


September 2023 - Present


- Constructed a big data application to offer insights into US real estate market, utilizing over 7.4M historical records of quarterly zip code-level market transactions spanning the past decade, also incorporating real-time data updates for dynamic analysis.
- Implemented a robust lambda architecture using Hive for data warehousing, Spark for batch data processing, Kafka for data streaming, and Node.js for the web application, enabling efficient processing, real-time updates, and seamless query and retrieval.

- Business Viz — A Finance Performance Metrics Dashboard Web Application**  July 2023 - August 2023
- Orchestrated development of a comprehensive finance metrics dashboard, integrating machine learning projections and offering real-time financial insights through intuitive UI and advanced data visualization.
 - Leveraged Redux Toolkit for seamless state management, Material UI component library for a modern and user-friendly interface, and Recharts for dynamic and interactive charts visualization.
 - Engineered a robust API backend using Express.js on top of Node.js, coupled with efficient data storage and retrieval through MongoDB, resulting in a highly flexible and responsive platform for financial decision-making.

- Financial Analysis and Algorithmic Trading using Python and QuantConnect**  June 2023 - August 2023
- Analyzed and visualized 20 major automotive companies' 5-year stock performance and correlation using yfinance, numpy, pandas, and matplotlib.
 - Optimized an algorithmic trading strategy tailored to the automotive market, with weighted consideration of financial indicators, sentimental analysis using Tiingo API and Vader analyzer, machine learning predictions using RandomForestRegressor.
 - Achieved a 128.80% return during a 5-year backtesting and generated a 18.74% return during a 3-month live trading deployment, affirming its real-world applicability and performance.

- Oscar Pictures — A Movie Database and Tracker iOS Application**  March 2023 - June 2023
- Researched user demands, identified user pain points and designed prototypes in Figma.
 - Developed the application in Swift, integrated data persistence with CoreData, enabled interactive information with WebKit, and enhanced user experience with immersive backgrounds, randomized recommendations, statistics and status tracker features.
 - Maintained ongoing support for the application, addressed issues, and implemented new features based on user feedback to ensure application responsiveness, error prevention, and compatibility across different devices.

- Apple Maps Product Redesign**  March 2023 - June 2023
- Improved user experience and efficiency by a more intuitive interface, resulting in a significant reduction in search-related task time and enhanced multitasking capabilities.
 - Redesigned color palette, element position and menu logic and innovated offline maps and screen-on-screen feature to provide better accessibility, enhance user efficiency and expand usage scenarios.
 - Conducted user testing in Balsamiq and improved alert box positioning, data caching, and status visibility based on user feedback.

- Building Modern Computer — A Hardware and Software Practicum**  January 2023 - March 2023
- Designed and implemented a computing system from low-level logic gates to a complete computer architecture.
 - Built assembler, VM translator and compiler using Python to enable the conversion between assembly code, intermediate VM code, and higher-level language (Jack).
 - Developed an interactive graphical keyboard-controlled game featuring randomly generated moving characters using object-oriented programming techniques and it successfully compiled and executed on the constructed computer.

SKILLS & INTERESTS

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|--|---|
| • Programming with Python, Java, Haskell, Scala | • Data Analytics with Tableau, Alteryx, SQL, Hive, Spark, Kafka |
| • Mobile Development with Swift (iOS), Kotlin (Android) | • Financial Analysis with Capital IQ, Bloomberg, QuantConnect |
| • Web Development with HTML, CSS, JavaScript, React | • Work Demonstration with Microsoft Office, Keynote |
| • UI/UX and Product Design with Figma, Balsamiq | • Video Editing with Final Cut Pro |
| • Expertise in Financial Management and Accounting | • Business Acumen in Strategic Analysis and Market Research |
| • Interests: Language Learning, Card Magic, Video Editing, UI Design, Solving Hanayama Cast Puzzles, Poker | |

COMMUNITY AND LEADERSHIP

- Second Harvest Food Bank** Winston-Salem, NC
Volunteer November 2019 - December 2020
- Actively volunteered in warehouse operations such as food sorting and pallet building

- Agricultural E-commerce Project** Hangzhou, China
Team member July 2016 - August 2016
- Designed and implemented an agricultural product selling and distributing platform to empower local farmers' direct sales
 - Implemented a QR code system for improved product traceability and quality control
 - Provided strategic and technical support in establishing partnerships among suppliers, logistics providers, distributors, and regulators to ensure seamless transactions and operations throughout the business cycle

- International Business Association** Beijing, China
Co-founder September 2015 - June 2017
- Established the association and successfully secured a \$20K sponsorship from New Oriental Education Group
 - Achieved significant membership growth of over 500% and received the "2016 Best Student Organizations" award

- Arts Union & Host Group** Beijing, China
Vice President September 2015 - June 2017
- Orchestrated 6 large-scale events, involving over 100 staff and 800 attendees per event
 - Facilitated collaborations and partnerships across educational institutions, initiated cooperative training programs