Jiayu (Gavin) Zhang
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Technical Skills

LangChain Suite, Vertex, Vector DBs, RAG, OpenAI, Bedrock, MCP, Python, R, SQL, Typescript, Haskell
ETL & ELT, Data Warehousing, Airflow, PostgreSQL, Snowflake, RDS, BigQuery, FastAPI, Docker, Kubernetes
PowerBI/DAX, Tableau, Looker, Serverless Functions, Jupyter, Git, English, Mandarin, Spanish (Professional)

Professional Experience

IgniteTech — Senior AI Analyst (Finance)   *Jun 25–Ongoing*
- Drove the implementation of scalable workflows with and without AI in Zapier, n8n and Python across the entire business operations arm to reduce operational costs, improving EBITDA margin by 20% and improving experience for both customers and vendors.
- Managed revenue operations across the group and integrated a recent acquisition into the portfolio; set up reporting and centralised analytics in BigQuery & Dataform for data-driven decision making that reduced revenue slippage by 85%.
- Championed the integration of new AI tools and systems to improve operational efficiency and save more than 2 hours per person weekly.
- Reported directly to the CFO on efficiency, ROI and adoption of new and existing AI initiatives, in addition to traditional financial reporting.

PricewaterhouseCoopers — Senior Consultant (Deals)   *Nov 21–Jun 25*
- Developed FastAPI backend systems for financial data processing with built-in validation checks, improving data retrieval speed by 40% and ensuring 99.9% data accuracy for critical business decisions.
- Engineered scalable and parallelised data processing pipelines directly applicable to customer data integration workflows.
- Performed deep, data-driven analyses of company financials and operations across manufacturing, SaaS, and pharmaceuticals for deals of over $1 billion in aggregate.
- Enhanced the accuracy and depth of analysis for the broader deals team by implementing AI document processing and natural language data query.
- Worked extensively with technical and non-technical stakeholders, translating complex business requirements into technical solutions for M&A due diligence with consistently strong client feedback.

3Fold Resources — Supply Chain Data Analyst   *Aug 20–Nov 21*
- Designed and implemented Python-based data processing pipelines to automate procurement workflows, reducing manual work by 3+ hours weekly.
- Developed analytics tools to optimize supplier selection, resulting in 75% cost reduction for key components.

Education

University of Melbourne — Bachelor of Commerce (Actuarial Science)   *Jun 19–Dec 21*
Global Scholars Award; H1 Honours
National University of Singapore — Student Exchange Programme (Data Science)   *Dec 21–Jun 22*
Honours level Data Science

Projects

AIP: Automated Invoice Processing — End-to-end document processing system
Tech: OCR, LLM, PostgreSQL Vector DB
- Developed end-to-end Automated Invoice Processing System with OCR, document parsing, and LLM-based extraction, utilizing PostgreSQL vector database for semantic search.

Algorithmic Market Maker — High-frequency trading system
Tech: Python, WebSockets, Async Architecture
- Developed a high-frequency trading system using Python with websocket connections for real-time market data processing with low latency operation with asynchronous architecture.

Financial Dashboarding — Interactive dashboards with Python backend
Tech: Python, Snowflake
- Built interactive financial dashboards with a Python backend connected to Snowflake, enabling real-time financial reporting and KPI visualization.

Mentorship

Romitan City Government, Uzbekistan — ML/AI Development Mentor   *2025*
- Mentored ML/AI developers in application architecture and best practices for government infrastructure constraints
- Enhanced team capabilities in machine learning implementation and scalable system design
- Facilitated knowledge transfer sessions on modern development workflows and deployment strategies