

**Jiayu (Gavin) Zhang** jiayu@zhangdata.com • linkedin.com/in/jiayu-g-zhang • www.zhangdata.com

## Technical Skills

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

## Professional Experience

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**Ignite Tech** — 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
- 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
- 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

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**University of Melbourne** — Bachelor of Commerce (Actuarial Science)

*Jun 19–Dec 21*

Global Scholars Award; H1 Honours

**National University of Singapore** — Student Exchange Programme (Quantitative Finance)

*Dec 21–Jun 21*

Honours

## Projects

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**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.