JINQI GONG

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Education

University of Southern California — California, USA
Master of Science in Analytics | Industrial & Systems Engineering, Viterbi School of Engineering — *08/2024 - 05/2026*
Coursework: Predictive Analytics, Optimization Method, Database Management, Business Intelligence — GPA: 3.87/4.0

University of California, Berkeley — California, USA
Visiting Student, Spring 2023 | Coursework: Artificial Intelligence, Abstract Algebra, Numerical Analysis — *01/2023 - 05/2023*

University of Macau — Macau, China
Bachelor of Science in Mathematics | Statistics & Data Science, Faculty of Science and Technology — *09/2020 - 06/2024*
Coursework: Linear Algebra, Programming, Advanced Probability, Statistical Analysis, Machine Learning — GPA: 3.66/4.0

Experience

Project Engineer, Ecotron | Torrance, CA — *05/2026 - present*
- Managed client communication, commercial negotiations, and cross-functional project coordination across 20+ customers
- Led $1M+ in customer orders through supply chain management, technical support, and global business development
- Analyzed sales, market, and operational data to support product strategy with CEO, generating 15% increase in revenue

IT Engineer, GOFO | Chino, CA — *03/2026 - 05/2026*
- Maintained internal logistics systems and collaborated with business teams to troubleshoot issues and optimize workflows
- Built a warehouse relocation tracking system for real-time shipment monitor and process control, improving efficiency by 30%
- Streamlined logistics operations through workflow analysis and agile development, reducing manual workload by 10%

AI Engineer Intern, Aurite AI | Mountain View, CA (Remote) — *06/2025 - 08/2025*
- Engineered an automated AI workflow using the Aurite AI Agent Framework to improve efficiency on medical documentation
- Integrated OpenAI LLMs and Google Cloud Speech-to-Text for transcription and structured SOAP note generation
- Built modular, reusable pipeline components for audio conversion, speech recognition, text extraction and HTML rendering

Data Scientist Intern, Avalon Mfg | Compton, CA — *05/2025 - 06/2025*
- Applied statistical analysis and machine learning to detect anomalies in vibration and sound data, improving precision by 28%
- Built a web app UI dashboard to present insights to engineering teams, reducing unplanned downtime by over 40%
- Developed and maintained structured feature logging with PostgreSQL database, supporting scalable historical analysis

Research Assistant, Tsinghua University | Beijing, China — *06/2023 - 10/2023*
- Information Retrieval Lab at Tsinghua University (THUIR) | Advisor: Shaoping Ma, Professor
- Research Area: Information Retrieval, Recommendation System, Natural Language Processing, Large Language Model
- Rewrote 300+ prompts and compared 11 Large Language Models by calling APIs for LLM evaluations

Research/Projects

Automated ML Pipeline and Predictive Analytics Dashboard | *Python, Tableau, Vertex AI* — *04/2025 - 05/2025*
- Built a ML pipeline on GCP Vertex AI for 30-day hospital readmission prediction with preprocessing and feature engineering
- Automated training and inference workflows with CatBoost model and apply SMOTE to enhance model F1 performance
- Developed an interactive Tableau dashboard with KPIs, visualizations, and drill-downs, combining with patient-level insights

Stock Model Analysis and Investment Strategy | *Python, Data Analysis, Visualization, Machine Learning* — *11/2023*
- Silver Medal, First Prize (Top 0.17%) | "Greater Bay Area Cup" Financial Mathematical Modeling Competition
- Constructed 5 key characteristic indicators for CCV stocks, and summarize into 3 clusters by Hierarchical Clustering method
- Developed short/long-term investment portfolios that generated 10%+ returns by Markowitz Model and linear programming

Double Correction Framework for Denoising Recommendation | *Pytorch, Deep learning* — *06/2023 - 10/2023*
- Co-author | Paper accepted by the ACM SIGKDD Conference 2024
- Improved model performance by up to 25.9% through stable loss calculation and cautious hard sample search
- Designed a progressive label correction strategy, leading to an 8.6% improvement in recommendation performance

Movie Industry Database Design | *SQL, Data Modeling, Database Management* — *04/2022 - 05/2022*
- Developed a structured database system using MySQL Workbench, covering 10+ entities and relations
- Optimized query efficiency by implementing 10+ SQL queries involving JOINs, aggregations, and subqueries
- Created 1 view, 2 functions and 1 procedure to enhance database usability, allowing quick retrieval

Skills

Programming Languages: Python, SQL, R, MATLAB, Java, C, AMPL, Swift
Tools: Tableau, PowerBI, SAP, LaTeX, Markdown, Jupyter Notebook, VS Code, Git, Snowflake, HTML, Vertex AI
Languages: English (full professional), Mandarin (native), Cantonese (professional working)