

JINGYU WANG

Web3 Technical Analyst | Digital Asset & Blockchain Research

Singapore | Singapore Permanent Resident

PROFESSIONAL SUMMARY

Engineering-trained technical and business analyst with 6+ years across semiconductor process investigation, APAC data analytics, business intelligence, and strategic research, plus hands-on independent research into blockchain infrastructure, prediction markets, EVM ecosystems, and digital asset markets. Translates complex technical and market information into structured research, risk assessments, analytical insights, and senior-management decision materials. Hands-on work spans Python, APIs, SQL/SQLite, wallet and transaction data, on-chain reconciliation, order-book analysis, and crypto-native market infrastructure.

CORE SKILLS

Web3 & Digital Assets: Blockchain Infrastructure, Digital Assets, DeFi, Prediction Markets, EVM, Wallets & Transactions, Smart Contract Interactions, Token Analysis, Token Economics, On-chain Analysis, CLOB, Liquidity Analysis, Market Microstructure, Blockchain Explorers

Data & Technical: Python, SQL, SQLite, APIs, GitHub, Power BI, Tableau, Snowflake, Excel, Power Query, VBA, Salesforce

Research & Business: Technical Research, Market Intelligence, Risk Assessment, Business Analysis, Commercial & Financial Analysis, Strategy, Executive Reporting, Stakeholder Management, Cross-functional Collaboration

INDEPENDENT WEB3 TECHNICAL & DIGITAL ASSET RESEARCH

Independent Research | Self-directed | Singapore | 2026 - Present

- Conduct technical and market research across blockchain infrastructure, digital assets, prediction markets, EVM-compatible ecosystems, wallets, token systems, decentralized liquidity, and crypto-native market structure.
- Built a Python-based research and execution framework around Polymarket Gamma and CLOB APIs to analyse ordered, mutually exclusive weather-outcome buckets, probability-style pricing, bid/ask spreads, depth, maker/taker mechanics, and execution conditions.
- Evaluated event-level forecasts with Ranked Probability Score, Brier Score, and Log Loss; investigated Negative Risk and executable arbitrage conditions while distinguishing theoretical price relationships from fillable opportunities after spread, depth, fees, and latency.
- Developed reconciliation workflows across API data, SQLite trade records, wallet activity, and ERC-1155 positions to investigate balances, executions, settlement records, and exposure consistency.
- Designed execution-monitoring and risk-control logic covering latency, position exposure, connectivity, data synchronization, reconciliation reliability, and circuit-breaker behaviour for automated market-making research.
- Investigated EVM-compatible infrastructure including RPC endpoints, chain IDs, wallet configuration, explorers, transactions, token workflows, liquidity pools, and on-chain state monitoring.

PROFESSIONAL EXPERIENCE

APAC Business Analyst - Global Center of Excellence | Johnson Controls | Singapore | Jul 2023 - Present

- Built automated multi-source data models and Power BI reporting for KPI monitoring, engineering tracking, and executive reporting; the source resume reports that the system released two people from recurring manual tracking and weekly consolidation work.
- Developed budgeting and margin-analysis tools supporting opportunity qualification, win/loss assessment, and commercial decision-making by engineering and sales teams.
- Prepared data-driven insights and executive materials for VP-, CEO-, and monthly SteerCo-level reviews, drawing from multiple large data sources.
- Led KPI definition and tracking for an APAC Center of Excellence of more than 300 employees and conducted regular reviews with senior leaders across SEA, India, NEA, Pacific, and Hong Kong.
- Analysed market, pricing, finance, and product trends with cross-functional teams to identify performance drivers, risks, and improvement opportunities.

PROFESSIONAL EXPERIENCE - CONTINUED

Advanced Development Technology Process Engineer / Process Owner | Micron Technology | Singapore | Sep 2019 - Apr 2023

- Conducted root-cause investigation, technical risk analysis, and data-driven troubleshooting for advanced semiconductor manufacturing processes, including process-indicator monitoring and alarm-response recommendations.
- Developed technical hypotheses and validated process solutions through controlled test runs, qualification approaches, and production data analysis.
- Led cross-functional technical investigations with development, manufacturing, yield-improvement and analytical teams, plus external vendors; documented findings for internal and external stakeholders.
- Managed improvement roadmaps, milestone data reviews, change management, and process/equipment qualification supporting new technology-node transitions and continuous improvement.
- Residue-defect investigation and experimental validation contributed to the publication “150 RG NAND Residue Defect Mitigation in Wet Nitride Strip High Selection” (STS-FE 2022).

ADDITIONAL EXPERIENCE

Research Assistant | CSIC / Spanish National Research Council | Madrid | Feb 2019 - Aug 2019

- Collaborated with CSIC and HKUST teams on broadband acoustic absorption using bio-inspired materials for transportation and presented the research at a CSIC conference.

Lab Assistant | HKUST MAE Lab | Hong Kong | Oct 2018 - Jan 2019

- Designed and fabricated a nanofluid two-phase cooling system for IC thermal management and a 2 x 2 cm ultra-thin nanostructured heat-transfer module.

Sales Engineer Intern | Johnson Controls | Nanjing | Jan 2018 - Aug 2018

- Coordinated with a sponsor to deliver a conference for more than 500 retailers in Jiangsu province.

EDUCATION

Master in Aeronautical Engineering | The Hong Kong University of Science and Technology (HKUST) | Hong Kong | Sep 2018 - Aug 2019

- GPA: 3.8/4.0; Top 5%. Excellent Student Representative and Excellent Student Scholarship recipient.

BEng in Environment and Life-support Engineering of Aircraft | Nanjing University of Aeronautics and Astronautics | Nanjing | Sep 2014 - Jun 2018

- University scholarship recipient; Excellent Graduation Paper Award.