# (ALVIN) LIM GI HONG | Linkedin: https://www.linkedin.com/in/lim-gi-hong-5917a6305 |

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## PROFILE

**Economics undergraduate focused on building market intelligence systems across macro, equity, FX, and blockchain markets using quantitative and data-driven analytical frameworks.**

## EDUCATION

**Universiti Malaya (UM), Malaysia** 2023 - Present

- Bachelor of Economics (Applied Economics)

**Kolej Tingkatan Enam Sri Istana** 2020 - 2022

- Sijil Tinggi Persekolahan Malaysia (STPM)

**SMJK Kwang Hua** 2015 - 2019

**Accounting Stream**

- Sijil Pelajaran Malaysia (SPM)

## PROJECTS

**Individual Autonomous Firm (IAF) Framework**

*Independent Research Paper | 2026*

- Developed a conceptual economic framework exploring how AI, Web3, and digital infrastructure may enable individuals to operate as autonomous economic entities.
- Analyzed the implications of AI-enhanced productivity, decentralized coordination systems, programmable finance, and digital reputation infrastructure on future labor and organizational structures.
- Integrated concepts from labor economics, institutional economics, digital capital formation, and emerging AI ecosystems into a unified future-of-work framework.
- Designed supporting visual frameworks and prototype economic infrastructure models connecting independent financial systems, market intelligence tools, and digital coordination layers.

**On-Chain Market Structure Engine (Python, SQL, Dune Analytics) | GitHub:** https://github.com/alvinlgh23/Onchain-market-structure-engine

- Built a probabilistic crypto market intelligence framework integrating macro liquidity, capital flow, narrative rotation, and on-chain indicators into a multi-layer market regime classification system
- Designed a seven-state market ontology with contextual regime logic, confidence scoring, historical analogue matching, and transition probability modelling
- Implemented quantitative frameworks using SOPR, RHODL Ratio, Exchange Flow, LTH/STH Rotation, Miner Behaviour (Puell Multiple), ETF flow proxies, and stablecoin liquidity metrics
- Developed automated SQL-based data pipelines via Dune Analytics alongside Python processing workflows for live market-

state monitoring

- Built interactive HTML reporting dashboards featuring regime heatmaps, forward-return distributions, signal hierarchies, historical regime comparisons, and probabilistic scenario analysis
- Designed transparent methodology, proxy assumptions, and confidence reporting to improve interpretability and analytical reliability

**KOSPI Signal Monitor (Python, Econometrics, Statistical Modelling) | GitHub: https://github.com/alvinlgh23/KOSPI_Signal_Monitor.git**

- Built a multi-factor econometric framework to identify key drivers of KOSPI market behavior using macroeconomic, technological, consumption, and cultural variables
- Applied Granger causality analysis, rolling correlations, and OLS regression to identify predictive relationships and short-term lead structures within Korean equity markets
- Developed a structured signal-classification engine with directional bias, factor dominance ranking, and market-regime interpretation
- Built a real-time dashboard translating statistical outputs into decision-oriented market insights and factor rotation analysis
- Identified technology and semiconductor-related factors as dominant short-term explanatory drivers within the modeled period

**S$NEER Shadow Model (Python, FX Model) | GitHub: https://github.com/alvinlgh23/SGD-NEER-shadow-model.git**

- Built a shadow S$NEER framework approximating Monetary Authority of Singapore (MAS) exchange-rate policy using constrained optimization and rolling regression models
- Reconstructed a trade-weighted currency basket to simulate policy-band behavior and exchange-rate slope adjustments
- Modeled volatility-adjusted policy ranges to identify potential policy–market deviations and recentering pressure
- Applied macroeconomic and FX analysis to evaluate policy sensitivity and exchange-rate positioning

**Market Intelligence System (Python, Macro & Market Structure Framework) | GitHub: https://github.com/alvinlgh23/market-valuation-engine**

• Built a rule-based market intelligence framework for interpreting liquidity conditions, sector rotation, macro fragility, and institutional positioning across equity markets

• Designed multi-layer analysis workflows integrating:

- global liquidity indicators
- macroeconomic stress signals
- sector relative strength
- narrative classification
- positioning / crowding analysis

• Developed market-structure interpretation systems capable of distinguishing:

- institutional momentum
- speculative narrative expansion
- valuation compression
- momentum repair
- thematic overcrowding

• Implemented Python-based data pipelines and modular reporting systems for real-time macro and market analysis

• Documented framework philosophy, narrative taxonomy, and interpretation methodology through structured GitHub research

documentation

**Crypto Treasury Company Valuation Model (Python, Financial Modelling) | GitHub:**
**https://github.com/alvinlgh23/Crypto_Treasury_Company_Valuation_Model**

- Built a crypto-native valuation framework for treasury-focused companies using NAV dislocation, yield-generation, and balance-sheet exposure analysis
- Developed yield-adjusted scoring systems to classify relative valuation attractiveness across digital-asset treasury firms
- Integrated real-time crypto pricing and company financial data pipelines using APIs and Python-based workflows
- Combined macro, valuation, and digital-asset market structure concepts into a unified analytical framework

## MARKET & INVESTMENT EXPERIENCE

**Independent Equity & Digital Asset Research | 2023 - Present**

- Conduct independent research across equities, FX, and digital-asset markets using macroeconomic, valuation, behavioral, and on-chain frameworks
- Monitor liquidity conditions, ETF flows, stablecoin expansion, and blockchain market structure dynamics
- Apply probabilistic market-regime analysis and systematic interpretation frameworks to assess changing risk environments
- Synthesize macro, valuation, and behavioral signals into structured market-state assessments

## PROFESSIONAL EXPERIENCE

**AI Trainer — Outlier (Remote) | 2025**

- Evaluated AI-generated outputs for reasoning quality, consistency, and analytical reliability
- Conducted structured prompt testing and logical assessment workflows to improve model performance

**Sales Executive — PetGuard Malaysia | 2025 – Present**

- Developed frontline communication, persuasion, and customer engagement skills within commercial sales environments

**Event Operations & Production Crew | 2022 - Present**

Worked across major concerts and live events including Coldplay: Music of the Spheres Tour, Taylor Swift Eras Tour, TREASURE HELLO Tour, and Neon Music Festival

- Executed operational coordination and logistics workflows in fast-paced, high-pressure environments
- Collaborated across teams to support real-time event execution and problem-solving

**Sales Assistant | Watsons & Eu Yan Sang | 2022**

- Developed customer communication, persuasion, and behavioral observation skills through frontline retail interaction

## LEADERSHIP & CAMPAIGN EXPERIENCE

**Candidate — Faculty of Business & Economics Student Election (Universiti Malaya) | 2024**

- Developed and presented student-focused policy proposals and campaign messaging

- Conducted public speaking and student engagement activities
- Managed outreach strategy and campaign communication

**Secretariat — KMUM Deepavali Event | 2024**

- Assisted coordination and operational execution for university cultural event activities
- Worked with organizing teams on event logistics, communication, and participant engagement

## ADDITIONAL EXPERIENCE

**K-Culture Festival Volunteer — IN2KOREA | 2026**

- Participated in Korean cultural exchange and public engagement activities
- Assisted operational coordination and event support in cross-cultural environments

**Featured Cast — Media Production Experience | 2025**

- Appeared as a featured cast member in a publicly released commercial music video production
- Worked within fast-paced filming environments requiring coordination, adaptability, and on-set execution
- Collaborated with production teams under real-time shooting and scheduling conditions

## ACHIEVEMENTS AND CERTIFICATIONS

**Universiti Malaya Finance Association (UMFA) Competition (Participant)**

- Developed investment thesis and market analysis under time constraints
- Presented financial reasoning and strategic thinking

**Bronze Award (Malaysia Guitar Festival)**

**Anugerah Pelajar Cemerlang (STPM)**

**Trinity Classical Guitar – Grade 5 Certification**

## SKILLS

**Quantitative & Research**

- Market Regime Analysis
- On-chain Analytics
- Econometric Modeling
- Macro & FX Analysis
- Equity Valuation Frameworks
- Behavioral & Liquidity Analysis
- Probabilistic Decision Systems

**Technical Skills**

- Python (Pandas, NumPy, Financial Modeling, Data Pipelines)
- SQL (Dune Analytics)
- Econometrics & Statistical Modeling

- Data Visualization & Reporting
- R, EViews, SPSS

**Languages**

English | Malay | Chinese | Korean (Basic – King Sejong Institute Level 1B)