

Lee Yun Hao

Fintech Software Developer · MT5 Systems Engineer · Web Application Developer
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GitHub: [\[Github Repo\]](#) | Portfolio: [\[yourportfolio.com\]](#)

PROFESSIONAL SUMMARY

Software developer specialising in financial technology systems with hands-on experience designing and deploying production-grade trading infrastructure. Builds the real-time systems, data pipelines, and operational tools that keep trading platforms running accurately — including concurrent trade mirroring platforms, automated risk monitoring dashboards, position reconciliation engines, and full-stack web applications. Strong foundation in Python backend development, PostgreSQL, and MetaTrader 5 platform integration, combined with expanding capabilities in web development and cloud infrastructure.

TECHNICAL SKILLS

Languages	Python, JavaScript, HTML5, CSS3, MQL5, Pine Script
Database	PostgreSQL (schema design, relational modelling, query optimisation)
Cloud & DevOps	AWS (Windows Server), GitHub, Git, VS Code
APIs & Integration	MT5 Admin API, REST APIs, Telegram Bot API, CRM API (HMAC-encrypted), Web scraping
Web Development	Landing pages, company websites, web apps with user authentication and real-time data display.
Trading Platforms	MetaTrader 5 (MT5), TradingView, FXCubic Bridge
Domain Knowledge	Trading platform operations, position monitoring and reconciliation, copy trading infrastructure, platform administration, risk exposure management
Other Tools	Microsoft Excel (financial modelling and capacity planning), asyncio, HMAC authentication design

WORK EXPERIENCE

Champ Resources — Fintech Software Solutions for Trading Platform Operators

[2023] – Present
Backend Officer & Software Developer | Johor Bahru, Johor, Malaysia

Core Responsibilities

- Administer and configure trading platform infrastructure — client account settings, pricing parameters, and system tiers for multiple user segments with different trading requirements
- Design, build, and deploy Python-based backend services integrated with platform APIs for real-time trade monitoring, operational automation, and alert workflows
- Build and maintain real-time web dashboards and Telegram notification systems used by operations teams for risk monitoring and daily platform oversight
- Develop and maintain encrypted API integrations with third-party CRM systems using HMAC-based authentication (username + secret key + nonce) for secure data exchange
- Manage order routing configurations and third-party pricing connections, ensuring data integrity and system health across integrated components via automated monitoring
- Conduct capacity planning and performance analysis using Excel-based financial modelling to guide configuration decisions and optimise system routing rules

Key Projects

Copy Trading Platform — Python · PostgreSQL · MT5 Admin API · CRM REST API · HTML/JS/CSS

- Designed and built a full-stack copy trading system supporting 10 master accounts and 30 follower accounts concurrently, integrated with the company CRM via encrypted API

- Implemented HMAC-encrypted API authentication (username + secret key + nonce) for secure registration and management of followers, masters, and trade settings
- Built real-time position detection using MT5 Admin API to mirror master trades to follower accounts with configurable lot size multipliers and risk controls
- Developed an independent reconciliation engine running as a separate subsystem that continuously verifies position alignment and force-closes misaligned positions, preventing undesired exposure
- Delivered an admin dashboard for monitoring account relationships and managing configuration without requiring direct database access

Risk Exposure Monitoring Dashboard — *Python · MT5 Admin API · Telegram Bot API · HTML/JS/CSS*

- Built a real-time web dashboard for operations teams to monitor client equity, unrealised PnL, and total position exposure — replacing manual platform navigation with a purpose-built, easier-to-read interface
- Implemented configurable Telegram alert notifications triggered by client profit ROI thresholds, enabling faster risk management intervention
- Reduced manual monitoring workload and improved operations team response time to significant position events

Platform Integration Health Monitoring System — *Python · Web Scraping · MT5 Admin API · Telegram Bot API*

- Developed an automated monitoring system combining web scraping of third-party account data with MT5 client position data for real-time cross-system alignment verification
- Built Telegram alerting for low funding warnings and position discrepancy detection, preventing unhedged exposure caused by rejected orders or misconfigured routing rules
- Ensures third-party integration funding remains sufficient to cover maximum client position exposure at all times

Order Routing Administration & Capacity Model — *FXCubic Bridge · Python · MT5 Admin API · Microsoft Excel*

- Managed platform order routing and pricing feed configuration across multiple third-party connections, understanding the unique constraints and conditions of each integration
- Built an Excel-based capacity model to calculate the maximum client position coverage each integration can support under its specific margin and leverage constraints
- Used the model to design routing rules that distribute client activity optimally, improving execution quality and reducing integration margin risk

Platform Administration & Notification System — *Python · MT5 Admin API · Telegram Bot API*

- Configured MetaTrader 5 client groups with tailored settings for different client tiers and trading product requirements
- Developed automated Telegram notifications for new client registrations and deposit events, eliminating manual monitoring for the admin team

ADDITIONAL TECHNICAL EXPERIENCE

- **Built functional websites and web applications using HTML, CSS, and JavaScript** — including data dashboards, admin panels, landing pages, and web apps with user authentication
Web Development:
- **Built custom trading EAs with configurable entry/exit logic, position sizing, and risk management; validated against scenario-based test cases**
MQL5 Expert Advisor Development:
- **Developed trading strategies and custom indicators for backtesting and live signal generation**
TradingView Pine Script:
- **All production projects managed with Git and GitHub for version control, code history, and remote deployment synchronisation**
Version Control & Project Management:

EDUCATION

BACHELOR OF ENGINEERING (HONOURS): ELECTRICAL AND COMPUTER SYSTEM

[2019] | Monash University Malaysia | Malaysia