# SYED FAKHRUL BAKHTIAR BIN SYED AHMAD SHAFRIZAL

AI ENGINEER | AGENTIC AI SYSTEMS & AI ASSISTED PRODUCT DEVELOPMENT

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## PROFESSIONAL PROFILE

AI Engineer and founder of the Tresura ecosystem, an integrated business workspace spanning finance, HR, payroll, AI assistance, marketing, messaging, and trading research. Leads product vision, requirements, user experience, AI agent coordination, functional testing, and staged deployment as the sole developer using AI coding tools. Launched Ledger Web publicly in October 2026 with external demo testing, and is developing Maya AI's human supervised multiagent incident response workflow. Brings prior financial markets experience and a practical focus on safety, approvals, and operational reliability.

## CORE VALUE

- AI agent orchestration: Coordinates Muse, OpenAI Codex, Claude Code, DeepSeek, and local open source models for research, application development, incident diagnosis, and validation.
- Product leadership: Converts operational needs into requirements, workflow specifications, design decisions, testing criteria, and delivery priorities.
- AI assisted SaaS delivery: Guides implementation of multi tenant business applications, including role permissions, auditability, privacy boundaries, and staged releases.
- Quality and release control: Uses repeated AI assisted testing, manual functional validation, management acceptance, and explicit production approval.
- Trading discipline: Applies risk management, evidence based decision making, performance tracking, and structured review.

## PROFESSIONAL EXPERIENCE

### HEPTIX TRADING SDN. BHD. | Maluri, Kuala Lumpur | November 2025 – Present

#### AI Engineer | May 2026 – Present

- Founder and product lead of Tresura, initially developed independently in March 2026 and subsequently supported and funded by Heptix following management review in April; retains day to day product leadership, with major decisions aligned with management.
- Sole developer directing AI coding agents across web and mobile application work, from requirements and interface decisions to testing, troubleshooting, staging, and release coordination.
- Led public launch of Ledger Web in October 2026, a finance, HR, payroll, and business operations SaaS platform; external organizations are participating in demo testing, with no paying customers claimed.
- Developing Maya AI, a centralized AI assistant and operational monitoring system with phone notifications, incident reports, and agent driven remediation under human approval.
- Designed a staged incident workflow in which Muse investigates alerts and proposes or performs staging fixes; Codex validates changes or handles unresolved issues; final commit and production deployment require personal approval.
- Coordinates AI testing over multiple rounds, performs manual application checks, and obtains management acceptance for final review.

#### Junior AI Engineer | February 2026 – April 2026

- Moved into AI assisted software development and workflow automation, exploring agent based coding, application prototyping, and technical options with AI assistance.
- Founded Tresura as an independent project in March 2026, presenting its vision and early progress to Heptix management in April.

#### Junior Trader | November 2025 – January 2026

- Executed and documented 70+ monthly trades across futures and FX, following defined risk parameters, scenario plans, and market analysis.
- Managed market exposure exceeding USD 100,000 and maintained trading records, P&L reviews, and capital protection controls.

### Civil Engineer | HBS Engineering Sdn. Bhd. | Jun 2025 – Oct 2025 | Putrajaya

- Conducted site inspections and prepared Building Condition Assessment and Building Performance Audit reports for government facilities.
- Monitored contractors, checked maintenance and safety compliance, updated AutoCAD drawings, and prepared technical documentation.

**Assistant Manager | Netzcom (M) Sdn. Bhd. | Aug 2024 – May 2025 | Bandar Baru Bangi**

- Managed customer service, inventory, sales recommendations, mobile hardware and software diagnosis, and repair operations.
- Trained new staff in repair methods and product knowledge, improving service consistency and team readiness.

## SELECTED ACHIEVEMENTS

- Founded Tresura independently in March 2026; presented the vision to management and gained company funding and strategic support in April 2026.
- Publicly launched Ledger Web in October 2026 and began external demo testing, without claiming paid customers.
- Developed Maya AI's staged incident investigation and remediation workflow using Muse and Codex with explicit human deployment approval.
- Progressed from Junior Trader to Junior AI Engineer and AI Engineer at Heptix between November 2025 and May 2026.

## TRESURA ECOSYSTEM | FOUNDER & PRODUCT LEAD

Founded independently in March 2026; subsequently developed with Heptix sponsorship and strategic oversight. Leads the overall product roadmap, application design, AI assisted implementation, validation, and coordinated releases. Vision: an all in one intelligent workspace with connected HR, finance, marketing, messaging, and Maya AI as a contextual assistant across the ecosystem.

**Ledger by Tresura | Malaysian SME Finance, HR & Payroll SaaS | ledger.tresura.my | Publicly Launched**

- Launched the Ledger web platform publicly in October 2026, with external demo testers and no paying customers reported to date.
- Developing a multi tenant workspace for finance, employee administration, payroll, approvals, reporting, and operational management.
- Prioritizes Malaysian statutory payroll readiness for PCB, EPF, SOCSO, and EIS, with effective date controls, calculation traces, finalization safeguards, and secure employee tax information.
- Coordinates role based access, tenant isolation, audit logs, server side authorization, and safeguards for sensitive financial and salary records.

**Ledger Mobile | Flutter iOS & Android | Demo Testing**

- Developed mobile application workflows using Flutter for iOS and Android, following earlier experimentation with Expo Go.
- Implemented GPS location based attendance verification; facial recognition attendance verification is still under development and not operational.
- Application remains in demo testing and has not been publicly released; December 2026 is the planned release target.

**Maya by Tresura | Central AI Assistant & Operational Intelligence | maya.tresura.my | Prelaunch Testing**

- Developing a central AI assistant across the Tresura workspace with contextual memory, tool routing, files, tasks, voice interactions, and authorized actions, supported by scoped company and user data.
- Integrated application health monitoring and mobile notifications so service incidents can be reviewed remotely through Maya.
- Designed an approval gated multiagent incident workflow: Muse investigates, reports findings, and attempts supported staging fixes; Codex checks Muse's work or takes over when needed.
- Retains human control of remediation approval, commit, and production deployment; distinguishes service and subscription limit issues requiring manual intervention.

**Boost by Tresura | AI Marketing, SEO & Creative Production | boost.tresura.my | Testing**

- Developing an AI marketing platform for research, campaign direction, content, SEO, social media, landing pages, email, advertising, posters, and video.
- Coordinates creative production workflows, Remotion based video rendering, voiceover, approvals, resumable execution, and output validation.
- Works with Runway and ElevenLabs integrations, including server side credentials, paid usage approval, and creative quality checks.

**Relay by Tresura | Private Business Messenger | relay.tresura.my | Testing**

- Developing direct and group messaging for business use across web and mobile, with replies, forwarding, search, saved messages, and reporting.
- Coordinates moderation, rate limits, audit trails, and privacy conscious group administration and message retention.

## ADDITIONAL TRESURA PRODUCTS

**Invites by Tresura | Digital Wedding Invitations | invites.tresura.my**

- Built a bilingual invitation platform with templates, personalized guest links, mobile and desktop presentation, RSVP creation and updates, and guest safe data models.

- Implemented owner only preview routes and template switching designed not to alter live invitation records, supported by staging and browser verification.

**Tradebook & Labs by Tresura | Trading Journal, Research & Strategy Testing | tradebook.tresura.my | labs.tresura.my**

- Developing trade journaling, P&L reviews, paper trading, strategy simulation, walk forward testing, and algorithmic strategy research.
- Focuses on user data isolation and research checks across market regimes, slippage, transaction costs, drawdown, parameter sensitivity, and out of sample results.

## TECHNICAL & PRODUCT CAPABILITIES

- AI agents and LLM tools: Claude Code, OpenAI Codex, Muse, DeepSeek, ChatGPT, Gemini, local open source language models, prompt design, AI workflow orchestration, and multiagent review.
- Product: Product strategy, requirements definition, UX direction, roadmap prioritization, acceptance criteria, release planning, risk review, and stakeholder reporting.
- Applications and frameworks used through AI assisted workflows: React, Vite, Flutter mobile, REST APIs, responsive web applications, multi tenant SaaS, and deployment workflows.
- Cloud and data exposure: Cloudflare Pages, Workers, D1 SQLite, R2, Workers AI, Render, Docker, JWT authentication, and Resend.
- AI media integrations: Runway, ElevenLabs, Remotion, creative automation, and video validation.
- Security and QA practices: Server side authorization, role based access, tenant isolation, secrets handling, auditability, staging validation, safe migrations, and human approval gates.
- Trading: CL, GC, HG and FX, market analysis, risk management, P&L review, backtesting, walk forward testing, and drawdown analysis.
- Engineering tools: AutoCAD, Esteem, SIDRA Intersection 9, Revit, STAAD.Pro, CorelDRAW.

## EDUCATION

Bachelor of Civil Engineering with Honours | Universiti Kebangsaan Malaysia (UKM) | Oct 2020 – Aug 2024

Physical Science | Pahang Matriculation College (KMPh) | Mar 2018 – May 2020

## EARLIER EXPERIENCE

**Traffic Engineer Intern | Nilaimas Services Sdn. Bhd. | Aug 2023 – Oct 2023 | Seri Kembangan**

- Performed traffic data collection and analysis and contributed to road network concepts covering lanes, roundabouts, and pedestrian crossings.

**Purchasing Assistant | Jalinan Multi Resources | Dec 2017 – Mar 2018 | Kuala Terengganu**

- Processed purchase orders, coordinated suppliers, supported payment records, and helped resolve supplier performance issues.

## SELECTED LEADERSHIP & PROJECTS

**Head of Technical Team | KARYA The Fashion Show | May 2022**

- Led lighting, sound, multimedia, and event setup, completing the show without major technical disruption.

**Team Leader | PUBG MOBILE UKM Esports | Oct 2021 – Jul 2024**

- Led university level competitive teams to multiple first and second place finishes.

**Integrated Design Project | UiTM Hostel | Oct 2023 – Jul 2024**

- Completed integrated earthworks, roads, water reticulation, and reinforced concrete design using Esteem and STAAD.Pro.

**Two Storey Bungalow | Structural Design Project | Oct 2022 – Feb 2023**

- Managed a project team producing structural drawings and manual beam, slab, and column calculations to Eurocode 2.

## LANGUAGES & PROFESSIONAL DETAILS

Malay (native) | English (professional working proficiency) | Kajang, Selangor, Malaysia

## PROJECT LINKS

tresura.my | ledger.tresura.my | maya.tresura.my | boost.tresura.my | invites.tresura.my | relay.tresura.my | tradebook.tresura.my | labs.tresura.my

## REFERENCES

Professional references can be provided directly to employers upon request. Referee names and contact details are not included without permission.