

Kelvin You Kok Eng

AI-native Full-stack Engineer · Fintech Payments & Agent Systems

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SUMMARY

Full-stack engineer on a production payment platform serving 9,000+ users at dtcpay — React and React Native at the front, Kotlin at the back: cross-currency batch payments, fail-closed PII masking, AML review workflows. Off the clock, multi-agent LLM systems on the Claude Agent SDK — MCP tool servers, agent debate, and walk-forward evals that grade past calls.

EXPERIENCE

Jul 2025 - Present	Frontend Engineer DTCPay (FinTech) · Kuala Lumpur, Malaysia · Full-time - Kotlin backend for cross-currency batch payments: FX quote lock, largest-remainder allocation, CAS-on-status duplicate guard. - Fail-closed PII masking across 5 payment surfaces — unmask only on explicit corporate classification. - KYT case review UI: maker-checker approval workflow, RFI state machine, scope-gated decisions.
Jun 2024 - Jul 2025	Frontend Engineer Simpletruss · Kuala Lumpur, Malaysia · Full-time - Component library with compound patterns, TypeScript generics, Storybook docs. 40% faster dev velocity, 60KB bundle reduction. - GraphQL layer: Apollo Client, 80% cache hit rate, custom hooks (usePaginatedQuery, useOptimisticMutation). Type-safe, zero prop-drilling. - Performance: Code splitting, virtualization for 10K+ rows, Zustand over Redux. 35% faster initial loads.
Jul 2023 - Jun 2024	Frontend Developer Beyondsoft (Tencent) · Kuala Lumpur, Malaysia · Full-time - Performance: Virtual scrolling (500K rows), Web Workers for parsing, debounced filters. Sub-3s loads at 60fps. - Quality: Jest standards, mandatory reviews, 40% fewer production bugs. Docker dev env: 4h → 30min onboarding. - Cross-team: Specs with Tencent engineers, cross-browser (Safari, IE11), China CDN optimization.

PROJECTS

2026	Multi-Agent Stock Analysis Built a four-desk multi-agent research pipeline on the Claude Agent SDK with per-desk MCP tool servers, an adversarial debate stage adjudicated into a verdict, and walk-forward backtesting with Wilson intervals and a deflated Sharpe on the strategy search.
2026	Personal-OS Built a production agent system with custom skills, MCP servers, circuit breakers, and structured workflows for self-management, finance, learning, and career tooling.

SKILLS

Tech Stack	TypeScript, React, React Native, Next.js, GraphQL, Apollo Client, Kotlin, Python, Node.js, FastAPI, Flutter, Java, Solidity, Dask
AI / Agents	LLM Integration (Claude API), Claude Agent SDK, MCP (Model Context Protocol), Multi-agent Systems, RAG, Prompt Engineering
Data	PostgreSQL, Supabase, scikit-learn, pandas
Cloud & Delivery	Vercel, Docker, GitHub Actions (CI/CD), Firebase
Tools	Git, Claude Code, Playwright

EDUCATION

Jun 2021 - Jul 2023	Bachelor (Hons) — Software Engineering (Honours) Tunku Abdul Rahman University of Management and Technology · Kuala Lumpur, Malaysia · CGPA 3.72
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