



Nelson Gan *Software Engineer*

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📁 PROFESSIONAL EXPERIENCE

CoinGecko [🔗](#)

Software Engineer

08/2022 – present

Remote

AI & Automation

- Engineered **GeckoMind**, a **general-purpose LLM agent** platform powering market insights, category analysis, and portfolio intelligence, migrating from synchronous to asynchronous workflow architecture to enable high-throughput concurrent request processing.
- **Developed an AI-assisted Coin Category Tagging System achieving 89% accuracy with <5% false negatives** (tested with evaluations datasets), reducing admin evaluation time by 67% for meme tokens and 58% for non-meme categories.
- **Implemented LangSmith backtesting framework** to validate LLM accuracy against human reviews, enabling Ops team to self-serve prompt improvements without engineering dependency.

Performance & Infrastructure:

- Engineered a **CPU-parallelized CI test pipeline**, cutting runtime by **~70% (22 mins → 7 mins)** through concurrent test execution across all CPU cores.
- Refactored web and mobile categories page to share unified query and cache logic, reducing response times by **~35% for web and ~57% for mobile**.
- Optimized high-throughput non-view endpoints by removing redundant callbacks, reducing response time by **50% (40ms → 20ms)**.
- Implemented a **per-merge-request review server pipeline**, increasing concurrent testing environments **3× (from 3 to 10)** and improving release velocity for a team of 8 web engineers.

Product Features & Revenue:

- Enabled crypto payments on self-serve ads platform, unlocking **>\$20,000 in new ad revenue** via Moonpay Commerce (previously known as Helio) integration.
- Developed dedicated coin category and circulating supply request forms with approval workflows, reducing resolution time from **~10 days to ~4.2 days** and **~5 days to ~1.3 days** respectively.
- Improved coin market cap coverage from **33% to 45.54%** by integrating GT API & RPC endpoints for automated supply retrieval and token wallet tracking.
- Increased coin category coverage from **30% to 54.58%** through pattern-matching automation, auto-tagging ~2,200 coins with continuous growth.

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Software Engineer

03/2021 – 07/2022

Remote

- Built iCareTrace, a large-scale farm management system for Care Channels International, **generating RM200,000+ revenue** and enabling the NGO to manage livestock distribution across multiple countries (Singapore, Indonesia, Philippines).

- Created a reporting module with **20+ charts/tables and Excel export**, enabling data-driven decisions through comprehensive data visualization and analysis capabilities.
- Developed a Stripe-integrated event website for Football Association of Singapore, processing **S\$10,000+ in registration fees** and streamlining participant registration for youth competitions.
- Led client communications with **Care Channels International**, translating complex business requirements into technical solutions for highly dynamic farm management workflows.
- Maintained and enhanced **Cult Creative platform** (Next.js, React Native, Firebase), resolving critical bugs and delivering new features to improve platform reliability and user experience.

EDUCATION

Bachelors of Computer Science

Asia Pacific University

- Recipient of APU Merit Scholarship
- CGPA: 3.88

09/2021 – 08/2023

Kuala Lumpur, MY

Diploma in Software Engineering

Asia Pacific University


- Valedictorian of Class 2021 (out of 2000 coursemates)
- Recipient of APU Merit Scholarship
- CGPA: 3.99

04/2019 – 06/2021


Kuala Lumpur, MY

PROJECTS

Paygap.asia (Next.js, Supabase)

Paygap.asia  is an app initiative by MalaysiaPayGap (200k followers) that promotes salary transparency and allow users to submit their user career stories and salaries. I am actively working with the team to push out various backend features such as semantic search, company logo fetch, description generation with LLM. All of which are hosted on Supabase and are achieved with queues and cron jobs for asynchronous workflow.

Duitplanner.my (Next.js)

Duitplanner.my  has various financial tools tailored for Malaysians to calculate car loans, mortgages, investments, and plan their finances accurately. The app currently has around 1000+ MAUs and is continuously growing. The app is completely ads free and is my small way of giving back to the community.

SKILLS

Languages

English, Mandarin, Malay, Cantonese

Programming Languages

Ruby, Typescript, Javascript, PHP, Python

Frameworks

Ruby on Rails, Next.js, Laravel, Livewire, TailwindCSS, ReactJS, React Native, Android Kotlin

Technologies

AWS (Certified SAA-C03), Git, PostgreSQL, Supabase, MySQL, Firebase, REST API Design, LangSmith, Stripe, MoonPay Commerce