

NIGEL VAN DER LAAN

AI Systems Architect & FinTech Engineering Lead

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SUMMARY

AI systems architect and technical founder with 9+ years shipping production AI, trading and DeFi infrastructure. Built DojiPad's multi-model AI coaching stack and the non-custodial vault architecture licensed out, with 1B+ in trading volume processed in 2025. Background in neuroscience; active order-flow trader.

EXPERIENCE

Founder & CTO | ARQNXS, Amsterdam / Barcelona **2023 – Present**

- Built the DeFi signal-to-execution system (on-chain analytics, Enzyme vaults, GMX); 1B+ in trading volume processed through ARQNXS infrastructure in 2025.
- Built DojiPad (dojipad.com), a behavioral trading platform, and DJ, its AI coach: multi-model LLM pipeline with ~97% prompt cache hit rate, provider failover, voice coaching and a five-phase behavioral prediction engine.
- Built DojiPad Institutional (institutional.dojipad.com), a sealed Azure air-gapped deployment where trader data never leaves the fund's environment, with compliance controls and org admin for hedge funds and prop desks.
- Built DojiPad Vaults (vaults.dojipad.com): non-custodial Hyperliquid / HyperEVM vaults with a factory for outside managers; flagship Polaris vault forward-testing.

Fractal CTO | ARCrypto **2024 – 2026**

- Built, integrated and licensed the DeFi execution core and client layer (dashboards, performance trackers, Risk Profiling Tool for investor onboarding), then handed over operations.
- Platform supported a €4M+ Series A and multi-million position management.

Information Analyst | Dutch Government, Apeldoorn **2022 – 2023**

- Led a development team; optimized operations with Python and SPARQL and introduced CI/CD in GitLab.

Chief Technology Officer | Sintryx, Amsterdam **2021 – 2022**

- Led 13 engineers building a FinTech platform, NFT marketplace and DEX; engineered the smart contracts and closed a \$600k seed round in 10 days.

Senior Python Developer | GMU, Meppel **2021**

- Built ML/DL financial models and a crypto trading bot; managed a \$100k fund portfolio.

SKILLS

- **AI / ML:** OpenAI, LangChain, HuggingFace, PyTorch, TensorFlow, MLflow, multi-model LLM pipelines, prompt caching, voice AI
- **Engineering:** Python, TypeScript, Node.js, React, Next.js, FastAPI, Django, GraphQL, SQL, PostgreSQL, MongoDB
- **Web3 & DeFi:** Solidity, Hardhat, Ethers.js, Rust, Enzyme, Uniswap V3, GMX, Hyperliquid / HyperEVM, Arbitrum
- **Cloud & DevOps:** Azure (air-gapped), AWS, GCP, Docker, Kubernetes, CI/CD, Linux
- **Languages:** Dutch (native), English (fluent), Spanish (conversational)

EDUCATION

BSc Biological Psychology | Vrije Universiteit Amsterdam **2013 – 2016**

MSc Neuroscience (CNCR) (partial) | Vrije Universiteit Amsterdam **2016 – 2017**

MSc Genes in Behaviour and Health (partial) | Vrije Universiteit Amsterdam **2020 – 2021**