

Pawee Tantivasdakarn

BLOCKCHAIN & BACKEND ENGINEER | EVM SMART CONTRACTS | DEFI | TYPESCRIPT | PYTHON

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PROFESSIONAL SUMMARY

Blockchain and backend engineer with 5+ years of experience in business systems, infrastructure, backend services, EVM smart-contract integrations, and DeFi. As a part-time IT Consultant at MMG Services & Supply, design internal systems based on stakeholder feedback, including quotation workflows, CRM, secure remote access, dashboards, access controls, and backups. Previously built backend and blockchain systems at Alpha Innovations Lab, worked on Bitkub Chain infrastructure and upgrades, and co-founded NillaConnect as lead engineer.

EXPERIENCE

MMG Services & Supply Co., Ltd.

August 2021 - Present

IT Consultant (Part-time)

Remote | Bangkok, Thailand

- Designed and built MMG's internal systems from stakeholder feedback, including workflows for customer quotations, CRM, secure access, service dashboards, access controls, and backups.
- Built an Astro and PostgreSQL quotation tool with Codex assistance for MMG's customer quotation workflow; handled item pricing, quotation numbering, customer details, approvals, and PDF generation.
- Set up Twenty CRM to centralize customer and operational information for the company.
- Migrated legacy server services to Docker on Synology and managed containers with Portainer.
- Configured WireGuard and NetBird VPNs for secure remote access to the internal company network.
- Implemented access-control lists (ACLs) to assign employee roles and control permissions across internal services.
- Deployed Dashy as a centralized dashboard for internal service access.
- Managed server and service backup scripts and configured Synology NAS for shared storage and backups.

Alpha Innovations Lab

March 2025 - June 2026

Software Engineer (Backend)

Hybrid | Bangkok, Thailand

- Built TypeScript/NestJS backend services for INFINIT, an AI-powered DeFi platform; integrated and deployed DeFi protocols across Ethereum, Base, and HyperEVM using viem.
- Owned contract research, integration design, implementation, testing, deployment, and maintenance within the team's shared integration pattern.
- Built AI agent tools for leveraged stETH/ETH looping in Prompt2DeFi, reducing a manual workflow of roughly 20 transactions for around 4x leverage to a few user actions (demo).
- Integrated Aster perpetual positions, including position opening, leverage settings, and annualized funding-rate calculations; verified frontend-triggered transactions through integration and end-to-end tests.
- Built a Python and SQLAlchemy script used by another engineer to generate SQL migrations for strategy creation; tested the generated SQL against a database mirroring mainnet before reusing the script for production, reducing manual query writing and copying.
- Built Python and Bun scripts to query usage, total value locked (TVL), and transaction metrics for product-team decisions.
- Defined shared data schemas with the frontend team to support new protocol integrations in the UI.

Alpha Innovations Lab

September 2023 - February 2025

Blockchain Engineer (Smart Contract)

Hybrid | Bangkok, Thailand

- Tested INIT Capital smart contracts for a lending protocol that reached approximately \$166M in peak TVL; helped resolve issues raised by auditors.

- Identified and reported a share-to-asset rounding bug that could allow users to withdraw more than their entitlement under certain conditions; helped test the fix.
- Integrated Merchant Moe V2 Liquidity Book tokens as collateral in INIT Capital using Solidity adapters built with Foundry; implemented fair-price valuation and reward handling.
- Integrated Pyth as an additional collateral-price oracle, with configurable price-deviation checks when multiple oracle sources are set.
- Configured Hypernative monitoring, coordinated feature requests with its team, and wrote a protocol-wide kill-switch contract to pause all operations during security incidents.
- Designed and implemented a workflow used by the team for production deployments to compare proposed loan-to-value (LTV) settings, lending and borrowing permissions, and lending limits with on-chain values, flagging changes for manual review.
- Researched multi-chain token architectures and prototyped LayerZero OFT (Omnichain Fungible Token) implementations.
- Integrated LI.FI swap routing into INIT Capital's liquidation bot and passed swap payloads to the execution contract, reducing manual maintenance and addressing low-liquidity swap failures.
- Conducted internal knowledge-sharing sessions to explain new protocol mechanisms and integration considerations to the engineering team.

NillaConnect

May 2022 - August 2023

Co-founder & Lead Engineer

Started alongside Bitkub; full-time after leaving Bitkub

Hybrid

- Managed two developers implementing smart-contract calls and LI.FI routing logic, and coordinated outsourced developers building visualizations and tables.
- Led technical development and mainnet beta launch of NillaConnect V1 (Nilla Vault) on Ethereum, Optimism, Polygon, Avalanche, and Arbitrum, with approximately 4,557 wallets on the allowlist.
- Set up CI/CD workflows using GitHub Actions.
- Built the Next.js frontend and wallet connectivity with viem and the LI.FI widget, enabling cross-chain lending, withdrawals, and token swaps without manual network switching.
- Contributed to business strategy, pitching, investor and grant discussions, partnership development, tokenomics, and UX review.
- Helped NillaConnect reach the final round of the Binance Labs Incubation Program and secure selection for Outlier Ventures DeFi Base Camp and Berkeley SkyDeck Batch 15.
- Supported grant applications that resulted in grants from Aave Grants DAO, Li.Fi-Optimism, and Alchemy, as well as partnership development with Li.Fi, Yearn Finance, Alphagility, and other ecosystem projects.

Bitkub Blockchain Technology

October 2021 - August 2022

Blockchain Engineer (Blockchain Node)

Hybrid | Bangkok, Thailand

- Presented BKC-Ping, a Bitkub Chain Layer 2 using optimistic rollups, at the 1st Bitkub Chain Developer Meetup; demonstrated multiple transactions per second through a real-time game.
- Researched Layer 2 scaling approaches including optimistic rollups, zk-rollups, state channels, Plasma, and validiums; implemented an optimistic rollup on Bitkub Chain, an Optimism fork.
- Modified the Go-based Ethereum codebase for Bitkub Chain's first hard fork from Proof of Authority (PoA) to Proof of Staked Authority (PoSA); validated the transition with upgrade and regression tests while Bitkub NEXT served more than one million active users.
- Built and managed staging blockchain infrastructure modeled on production, using Terraform and Ansible.
- Deployed a Prometheus, Grafana, and Telegraf monitoring stack for blockchain observability; stress-tested the infrastructure with Locust.
- Customized the Blockscout explorer by modifying its Elixir codebase and frontend UI.

School of Engineering, King Mongkut's Institute of Technology Ladkrabang

November 2020 - September 2021

Research Assistant

On-site | Bangkok, Thailand

- Designed the system architecture and implemented the full-stack IoT-based cold-chain logistics solution, consuming parcel temperature and GPS data from hardware devices via an API.
- Built map-based truck-route tracking by date and temperature monitoring with alerts when readings exceeded safe thresholds.

King Mongkut's Institute of Technology Ladkrabang

2018 - 2021

Teacher Assistant

On-site | Bangkok, Thailand

- Assisted in teaching Intelligent Devices and Digital Systems, Cyber-Physical System Design, and Internet of Things and Smart Systems; advised students on their class projects.

Monitoring Technology Co., Ltd.

June 2020 - August 2020

Summer Intern

On-site | Bangkok, Thailand

- Installed environmental monitoring and alerting systems at client sites.
- Researched industrial-grade wireless monitoring devices and conducted a proof of concept for transmitting their data via NB-IoT and LoRaWAN to a user endpoint.

Department of Electrical and Computer Engineering, Carnegie Mellon University

June 2019 - August 2019

Summer Intern

On-site | United States

- Built a ThaiBev visualization comparing logistics performance with and without its warehouse-storage optimization logic.
- Supported the research team by running a Bitcoin full node and querying data to evaluate whether the proposed consensus mechanism improved overall network performance.

Nanyang Technological University

June 2018 - August 2018

Summer Intern

On-site | Singapore

- Prepared research data by mapping Singapore postal codes to geographic coordinates using the Google API, supporting a subsequent drone-delivery project.
- Developed the visualization and monitoring dashboard for a Smart Energy Meter project backed by a smart contract on a private blockchain.

SELECTED PROJECTS

DuckStack - Public Prototype

Built a public prototype with Codex assistance that suggests complementary skills, generates business ideas, evaluates them with Ikigai, and tracks business progress.

Money Tracker - Personal Project

Built a browser-based personal finance tracker for monitoring net worth, investments, savings, debts, and bills, with investment performance, asset allocation, USD/THB display, portfolio history, and on-device data storage.

Crowdera - ETHGlobal Taipei 2025 April 2025 | Zircuit - Best Use of EIP-7702

Built a donation platform using EIP-7702 to enable smart-contract functionality for regular Ethereum wallets.
Added NFT badges to recognize donor contributions.

Cyber Security Assessment Automated System - Undergraduate Capstone September 2020 - July 2021 | King Mongkut's Institute of Technology Ladkrabang | Computer Innovation Engineering

Collaborated with CMKL and SEC to build an automated security assessment system for broker services, using Argo Workflows to orchestrate parallel penetration tests as a directed acyclic graph (DAG) for endpoint discovery and vulnerability testing.
Used tools including Nmap and SQLmap; worked with Kubernetes, frontend development, and scored report generation.

EDUCATION

Bachelor of Engineering (B.Eng.), Computer Innovation Engineering (International Program) King Mongkut's Institute of Technology Ladkrabang

August 2017 - July 2021

Bangkok, Thailand

GPA: 3.88/4.00 | Relevant Coursework: Innovation Management; Logistics and Supply Chain Management; Lean Startup and Agile Business; Design Methods for Innovations; Cloud Computing; Data Analytics

High School Diploma, Applied Mathematics and Sciences Triam Udom Suksa School

2014 - 2017

SELECTED INNOVATION PROGRAMS

24 Hours of Innovation Thailand	Startup Thailand	January 2018
AIS Young Digital Talent Camp	AIS	January 2020
Statement of Participation: Technology and Innovative Entrepreneurship	Stanford Online	September 2020

HONORS AND AWARDS

First-Class Honors with Gold Medal, B.Eng. in Computer Innovation Engineering	KMITL	2021
Full Scholarship, King Mongkut's Institute of Technology Ladkrabang (KMITL)		
Zircuit - Best Use of EIP-7702 for Crowdera at ETHGlobal Taipei 2025		

INTERESTS

Basketball (point guard) and soccer (winger); enjoy both scoring and creating chances for teammates.

CORE SKILLS

Languages: TypeScript, Python, Solidity **Frameworks & Tools:** NestJS, Next.js, Bun, SQLAlchemy, Foundry, viem

Databases & APIs: PostgreSQL, SQL, REST APIs

Blockchain: EVM smart contracts, DeFi integrations, LayerZero OFT, blockchain nodes, consensus systems, optimistic rollups

Backend & AI: API architecture, streaming, backend services, dashboards, data workflows, AI agent tools, LangChain, Claude Code

Infrastructure: Docker, Kubernetes, Argo Workflows, Terraform, Ansible, Portainer, Synology

Observability & Testing: Prometheus, Grafana, Telegraf, Locust, integration testing, end-to-end testing

Security & Access: Hypernative, WireGuard, NetBird, ACLs, Nmap, SQLmap

Additional Hands-on Experience: Elixir (Blockscout customization), IoT monitoring, NB-IoT, LoRaWAN