KENTARO NAMBA

AI/ML || BLOCKCHAIN || FULL STACK ENGINEER   ⚲ LITTLE FERRY, NEW JERSEY 07643, UNITED STATES   ☎ +17322177702

⚬ DETAILS ⚬

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⚬ LINKS ⚬

Github

Telegram

Portfolio

LinkedIn

⚬ SKILLS ⚬

Python

PyTorch

TorchEngine

Machine Learning

NLP

LLM

Yolo | Computer Vision

EVM | Solana | Sui

DeFi Protocol

NFT

Solidity

Rust

Move

Hardhat

Foundryup

Web3.js | Web3.py

Node.js

Typescript

Javascript

AWS

Microservices

MongoDB | DynamoDB

👤 PROFILE

AI/ML & Blockchain Full-Stack Engineer with 10+ years in software development and 6+ years building high-impact Web3 systems.

I've delivered 50+ production smart contracts across **EVM, Solana, and Cosmos** powering **DeFi, staking, AMMs, lending platforms, and GameFi** products that have collectively handled over $50M in on-chain volume.

On the AI side, I've built several end-to-end AI products, including LLM-powered apps, RAG pipelines, agentic automation systems, and predictive trading models using **OpenAI, LangChain, TensorFlow, PyTorch, Transformers** for **CNN/FNN/RNN** models.

I enjoy taking ideas from concept -> model design -> backend orchestration -> frontend UI -> production deployment.

I'm comfortable **across the Blockchain Full stack**: gas-optimized **Solidity**, high performance **Rust** on **Solana**, **Python backend** services, **Node.js/TypeScript APIs**-, **MongoDB/DynamoDB/PostgreSQL/Redis** pipelines, **Dockerized microservices**, and **AWS/Azure** infrastructure.

I've also built advanced **Trading bots (Hyperliquid, Binance, Kraken, Bybit)** that leverage live market, funding, and spread data for automated execution.

I'm known for clean architecture, secure code, and audit-ready smart contracts—including 9.5+ ratings from Certik. I work best in teams that move fast, solve real problems, and ship with purpose.

My motto: **"Always up for a challenge, always learning—because in tech, the learning never stops."**

💼 EMPLOYMENT HISTORY

AI & Blockchain Engineer at Ink Finance
Apr 2022 — Jun 2025

Created the Basis Trading Bot and Staking Economy Core DeFi dApp on EVM, expanding the Ink Finance ecosystem by architecting the mathematical models, mechanisms, and smart contracts for staking, pledging, and sponsorship systems.

- Contributed AI/ML expertise by developing predictive trading models CNN, LSTM, Transformers, RAG pipelines, and LLM-powered automation tools using LangChain, OpenAI, and HuggingFace. Designed AI-driven backend services in Python that integrate embeddings, semantic search, and vector databases to enhance DeFi analytics and developer workflows.
- Built a multi-exchange basis trading bot (Hyperliquid, Binance, Kraken, Bybit) with real-time spread monitoring, OI analysis, funding rate evaluation, and dynamic cross-venue execution.
- Developed a backend-only protocol testing framework to validate contract interactions without requiring a UI. Achieved a 9.5+ audit rating from Certik for smart-contract quality, security, and architecture across engine, pool, token, library, and factory modules.

Skills: Pandas, NumPy, PyTorch, TensorFlow, Transformers, LangChain, LLM integrations, RAG systems, FAISS, Solidity, Rust, Python, TypeScript, Node.js, React.js, Next.js, Web3.js, Hardhat, Foundry, GraphQL, MongoDB, PostgreSQL, Redis, AWS, Docker, Kubernetes, Terraform, CI/CD, GitHub, CCXT, Slither, Tenderly, OpenZeppelin, Cryptography, REST APIs, WebSockets

AI & Full Stack Engineer at Loxar (Startup)
Oct 2021 — Feb 2022

Implemented an AI-powered NFT art generation pipeline, enabling automatic creation of character and item NFTs from short video clips.

- Used computer vision to extract key frames, diffusion models to generate stylized art variations, and automated metadata packaging for ERC-721/1155 minting.
- Delivered a smooth user flow where players could upload clips and instantly receive unique, AI-generated NFT assets ready for use in the game ecosystem.
- Completed backend development, admin systems, and scalable microservices architecture supporting high-volume NFT generation workflows.
- Integrated CI/CD pipelines using GitHub Actions and containerized the backend with Docker to ensure rapid, stable deployment.

Skills: AI Art Generation, Diffusion Models, CV Frame Extraction, Metadata Automation-, Solidity, Smart Contracts, Hardhat, Web3.js, Node.js, MongoDB, Apache Kafka, NFT Standards (ERC-20/721/1155), BSC, Docker, AWS, CI/CD, GitHub Actions, Nginx, PM2

Lead Smart Contract Developer at Flare Finance
Dec 2020 — Aug 2021

Distinguished DeFi architect with a robust skillset in creating intricate financial platforms, as evidenced by the successful launch of a cutting-edge DeFi platform on the Flare Network.

- Designed the tokenomics, as highlighted by the conceptualization and design of FlareZard Tokenomics.
- Demonstrated expertise in decentralized governance mechanisms through the integration of MakerDAO, alongside a seamless swap experience leveraging Uniswap v2.
- Enhanced platform functionality by incorporating loan and staking solutions using AAVE v2.
- Comprehensive hands-on experienced in the full development lifecycle, including compiling, deploying, and meticulous testing on the Truffle environment

Skills: Solidity, Smart Contract, Web3.js, Truffle, AAVE v2, MakerDAO, Uniswap v2, Flare Network, Tokenomics Design, Governance, Staking, Lending, JavaScript, Ethereum, EVM, DeFi Protocols, Blockchain Architecture

AI Solution Architect at HSQA (Startup)
Aug 2019 — Aug 2020

Worked as an AI Solution Architect with a proven track record of designing and deploying a sophisticated web-based platform for automated website testing.

Spearheaded the integration of advanced facial recognition and real-time camera authentication, enabling next-generation, frictionless sign-in workflows.

- Engineered an AI-driven system for loading, chunking, parsing, and indexing large PDF documents, supporting files of tens of thousands of pages. Implemented OCR for scanned PDFs, semantic chunking, text-embedding pipelines, and vector search using FAISS and AWS OpenSearch.
- Integrated advanced deep learning and NLP models to perform intelligent analysis of user requests and test instructions, enabling powerful natural-language-driven automation.
- Designed robust backend infrastructure on AWS, leveraging services including S3, DynamoDB, Polly, Rekognition, and Lex for chatbot functionality. Enhanced backend automation and intelligence with AWS Elasticsearch/OpenSearch, Lambda, API Gateway, and Selenium for automated testing.

Skills: Deep Learning, Python, TensorFlow, Keras, OpenCV, OCR, NLP, Embedding Models, FAISS, CI/CD, React.js, Next.js, Three.js, D3.js, Material UI, Bootstrap, Node.js, AWS (S3, DynamoDB, Polly, Rekognition, Lex, Elasticsearch, Lambda, API Gateway), Selenium

Lead Full Stack Developer at WPP Energy

Jan 2017 — May 2019

Thrived as a lead Full Stack Engineer, spearheading several innovative tech-driven projects that elevated the company's digital footprint.

- Developed a comprehensive dashboard that visualized real-time energy consumption, savings, and project progress, enhancing stakeholder communication and decision-making.
- Encompassed the enhancement of WPP's user portals, implementing secure login mechanisms and facilitating seamless data exchange with our energy partners
- Deployment of cloud solutions via AWS, ensured robust, scalable, and cost-effective platform operations

Skills: React.js, Node.js, Express.js, PostgreSQL, AWS (EC2, S3, RDS, CloudWatch), RESTful APIs, JWT Authentication, Docker, CI/CD, GitHub Actions, Chart.js

Game Developer at Squre Enix, Japan

Dec 2012 — Nov 2016

Developed MMORP Games on Windows, Android, iOS

- Designed detailed game economies to support long-term engagement and balanced in-game ecosystems
- Utilized Cocos2d-x, CryEngine, Unity3D, and Three.js to build immersive gaming experiences, integrating deep learning for AI-driven NPC behavior and game personalization
- Engineered a Game Security Integrated Platform using C++ and x86/64 Assembly to protect against cheating and reverse engineering
- Built a Game Launchpad and Website, and implemented a real-time authentication module using Socket programming.
- Developed a robust networking system enabling seamless multiplayer gameplay with low latency and high synchronization accuracy.

Skills: C++, Cocos2d-x, CryEngine, Unity3D, Three.js, Deep Learning, Game Economics, Multiplayer Networking, Game Security, x86/64 Assembly, Socket Programming, Real-Time Authentication, Game Launchpad, Windows/Android/iOS Development

EDUCATION

Bachelor's degree, Science University of Tokyo, Tokyo

Mar 2009 — Aug 2012

COURSES

Machine Learning Operations, CourseRa

Mar 2024 — May 2024

Decentralized Finance (DeFi) Infrastructure (Z4B8LC2SG67F), CourseRa

Mar 2023 — Mar 2023

Certified DeFi Developer (BCC-c88c89076501), Blockchain Council

Dec 2020 — Jan 2021

Ethereum and Solidity Developer, Udemy

Sept 2019 — Sept 2019

DeFi Development Mastery, Pro EatTheBlocks

Nov 2021 — Dec 2021

Introduction to Blockchain for Global Commerce (HWMKT2H2EEYQ), CourseRa

Jan 2020 — Jan 2020

Mastery Web3.js, Udemy

Nov 2019 — Dec 2019

React Web Development for Master, Udemy

Nov 2016 — Dec 2016

◀ REFERENCES

○ **References available upon request**