

# KENTARO NAMBA

BLOCKCHAIN || FULL STACK || AI/ML ENGINEER • LITTLE FERRY, NEW JERSEY 07643, UNITED STATES • +1 (201) 308-3434

## • 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 •

Blockchain Full-Stack & AI/ML Engineer with 10+ years in software development and 6+ years building Web3 and AI systems. I've delivered 50+ smart contracts across EVM, Solana, and Cosmos, powering DeFi, staking, AMMs, lending, and GameFi products.

On the AI side, I've built end-to-end solutions including LLM applications, RAG pipelines, and predictive trading models using OpenAI, LangChain, TensorFlow, PyTorch, and Transformers. I enjoy owning the full lifecycle from system and model design to backend orchestration, frontend delivery, and cloud deployment.

My stack spans gas-optimized Solidity, high-performance Rust, Python and Node.js services, scalable data pipelines, Dockerized microservices, and AWS/Azure infrastructure. Known for clean architecture, secure code, and audit-ready contracts, including 9.5+ Certik ratings, I thrive in fast-moving teams solving real problems and shipping with purpose.

## • EMPLOYMENT HISTORY •

### Senior Blockchain Full Stack Engineer at Ink Finance

Apr 2022 — Nov 2025

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

Led the AI/ML design for a multi-exchange basis trading system, developing predictive models using CNNs, LSTMs, and Transformers to forecast spreads, funding dynamics, and volatility across Hyperliquid, Binance, Kraken, and Bybit. Integrated these models into Python-based backend services for real-time signal generation, risk filtering, and automated execution.

Built a cross-venue trading engine with live spread monitoring, open interest analysis, funding-rate evaluation, and dynamic position management to optimize basis capture under changing market conditions.

Developed a backend-only protocol testing framework to validate smart contract interactions without a UI. Delivered audit-ready smart contracts, earning a 9.5+ Certik rating for security, architecture, and code quality across engine, pool, token, library, and factory modules.

### Blockchain Full Stack Engineer at LooksRare

Dec 2020 — Feb 2022

Designed and developed a full-featured NFT marketplace with on-chain minting, airdrop distribution, and in-game ownership integration. Enabled players to trade, own, and use NFTs within the PartyBeaver game ecosystem and its player-driven economy.

Built the game contract supporting NFT-based gameplay mechanics and real-time asset management.

Implemented an AI-powered NFT art generation pipeline that converts image clips into unique character and item NFTs by merging layers into full images. Automated metadata generation for ERC-721/1155 minting and prepared assets for instant use.

Delivered the complete backend infrastructure, including admin tools and scalable microservices to handle high-volume NFT workflows.

Established CI/CD pipelines using GitHub Actions and Docker containerization for rapid, reliable deployment and iteration.

PostgreSQL | MySQL

GraphQL

Apache Kafka

C | C++ | C#

Java

Cryptography

SSL

Unity3D Engine

Unreal Engine

React Native

Flutter

GitHub

CI/CD

## ◦ LANGUAGES ◦

English

Japanese

### ◦ AI Solution Architect at HSQA (Startup)

Aug 2019 — Aug 2020

Worked as an AI Solution Architect, designing and deploying a sophisticated web-based platform for automated website testing. Led the integration of facial recognition and real-time camera authentication, frictionless next-generation sign-in workflows.

Engineered an AI-driven document intelligence system capable of loading, chunking, parsing, and indexing PDFs with tens of thousands of pages. Implemented OCR for scanned documents, semantic chunking, embedding pipelines, and vector search.

Integrated advanced deep learning and NLP models to interpret user intents and test instructions, enabling natural-language-driven automation. Designed a scalable AWS backend architecture, leveraging S3, DynamoDB, Rekognition, Lambda, API Gateway, OpenSearch, and Selenium to deliver intelligent automation, chat-based interaction.

### ◦ Lead Full Stack Developer at WPP Energy

Jan 2017 — May 2019

Thrived as a Lead Full-Stack Engineer, driving multiple high-impact, technology-driven initiatives that significantly strengthened the company's digital presence. Designed and built a real-time analytics dashboard visualizing energy consumption, cost savings, and project progress, enabling clearer stakeholder insights and faster decision-making.

Led enhancements to WPP's user portals, implementing secure authentication,

role-based access, and seamless data integration with external energy partners.

Architected and deployed cloud-native solutions on AWS, ensuring the platform remained scalable, reliable, and cost-efficient while supporting growing user demand and data volume.

### ◦ Game Developer at Square Enix, Japan

Dec 2012 — Nov 2016

Developed MMORPG and online multiplayer games with cross-platform backend support for Windows, Android, and iOS. Designed and balanced complex in-game economies to drive long-term player engagement and sustainable virtual ecosystems.

Built immersive gameplay experiences using Cocos2d-x, CryEngine, Unity3D, Unreal Engine, and Three.js, incorporating AI-driven NPC behavior and personalization through deep learning techniques. Engineered a game security platform in C++ and x86/x64 Assembly to prevent cheating, memory tampering, and reverse engineering.

Created a game launchpad, implementing real-time authentication and session management via socket-based communication. Designed a high-performance multiplayer networking system with low latency and precise state synchronization, enabling smooth and scalable real-time gameplay.

## 🎓 EDUCATION

### ◦ Bachelor's degree, Science University of Tokyo, Tokyo

Mar 2008 — Aug 2012

## ❖ COURSES

### ◦ Machine Learning Operations, CourseRa

Dec 2023 — Jan 2024

### ◦ DeFi Development Mastery, Pro EatTheBlocks

Jan 2020 — Dec 2020

## ▶ REFERENCES

### ◦ References available upon request