TORU ICHIKAWA

Blockchain Engineer

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SKILLS

Program Language

C/C++	Solidity	Rust
Move	Python	JavaScript
Golang	TypeScript	

Web3 Frameworks

Anchor	Hardhat	Wagmi
Substrate	Ether.js	Oracle
Web3.js	Viem.js	

LLM Frameworks

Langchain	LlamaIndex
CrewAI	AutoGen	Ollama
Dialogflow	Flowise

Cloud Platform

| GCP | AWS | Lambdalabs |
| Runpod | | |

Database

| MySQL | SQLite | MongoDB |
| Redis | Pinecone | IPFS |

Frontend Frameworks

| React | Vue |

Backend Frameworks

| FastAPI | Django | Node |

SUMMARY

As an experienced Blockchain and NLP engineer, I possess a strong foundation in Transformer models, Model Optimization, and deployment.
My experience spans LLM Chatbot development and blockchain technology, here I have worked on decentralized systems, smart contracts, and secure blockchain networks. I am passionate about staying up-to-date with the latest advancements in AI/ML and blockchain technologies, consistently delivering high-quality, cutting-edge solutions.
With special talent in Speech Processing, LLM fine-tuning, and blockchain integration, I bring a unique blend of skills to create scalable, secure, and innovative applications

EXPERIENCE

Blockchain & LLM Engineer

IoT Logistics, LLC   📅 07/2024 - Present   📍 Paris, France

IoT makes adapting to emerging technology tools easy and frictionless. Even for Web3 and blockchain tooling integration.

- Leveraging NLP and blockchain to retrieve and verify on-chain data, preventing IP duplication while ensuring asset integrity, and built a decentralized IPNFT marketplace using IPFS for crowdsourcing research funding by minting IP as NFTs.

Blockchain Engineer

Pixelette Technologies   📅 04/2023 - 06/2024   📍 Ampang, Malaysia

As specialists in AI and Blockchain, Pixelette delivers end-to-end IT solutions from conception through deployment, ensuring seamless integration and support.

- Developed an advanced Zero-Knowledge Succinct Non-Interactive Argument of Knowledge(zk-SNARKS) based DEX platform with Zokrates on Ethereum.
- Built a Node Staking Dapp using Anchor optimizing time complexity and implementing scalable reward distribution.
- Developed DEX platforms, including Raydium-like solutions on Solana Layer2 chains, leveraging advanced DeFi mechanisms, liquidity pools, and automated market makers (AMMs) to ensure high performance and low latency trading environments.
- Designed and implemented secure on-chain poker games using Zero-Knowledge Proofs (ZKP) and ElGamal encryption systems on EVM and Polygon networks, ensuring cryptographic security, privacy, and fair play in decentralized gaming environments.
- Improved gas savings from token transfers by 85% using Balancer Labs protocol-inspired encoding design.
- Built ICO project with smart contract development using OpenZepplin and token sale mechanics using ZepplinOS and finally increased investors to 4700.
- Deployed a robust NFT marketplace on the Aptos blockchain, integrating smart
  contracts, token standards, and custom marketplaces, while optimizing for scalability, security, and seamless user interactions in a multi-chain ecosystem.
- Proficient in building and testing blockchain interfaces using Cosmos SDK, with experience in developing decentralized applications and custom modules in Go for secure and scalable blockchain solutions.

EXPERIENCE

NLP Engineer

Pixelette Technologies   📅 03/2022 - 04/2023   📍 Ampang, Malaysia

- Built a Chat Engine with Pinecone knowledge base and LlamaIndex.
- Built product recommendation engine with BERT, increasing customer satisfaction rate.
- Fine-Tuned Llama2 model based on customer feedback to build a sales assistant, increased customer satisfaction rate.
- Built various LLM applications using llama3.1 using some prompt engineering, fine-tuning and other LLM technologies.

Full Stack Engineer

Roadninja   📅 03/2021 - 02/2022   📍 Taupo, New Zealand

- Developed a commercial platform with React for the frontend and Laravel for the backend, using MySQL as the database.
- Collaborated effectively with team members using tools like Jira for project management, Slack for communication, and Figma for design, ensuring smooth project workflows and cross-functional alignment.
- Built a high-performance online commercial platform using Flutter, delivering a seamless cross-platform user experience with real-time product updates, secure payment integration, and responsive design for web and mobile applications.
- Integrated Stripe Gateway and Twilio OTP verification system for secure payment processing and user authentication, enhancing platform reliability and user trust.
- Implemented message notifications using Firebase Cloud Messaging Service (FCM) to deliver real-time updates and alerts to users.
- Designed optimized backend algorithms to handle complex transaction logic between drivers and companies, ensuring seamless and accurate processing.
- Utilized Terraform modules for MySQL database management, including configuring database instances, users, roles, and security groups for drivers, companies, and administrators.
- Refactored the existing code to improve the performance of a heavy Angular front end by talking to a Node.js and Express.js via RESTful API

Frontend Engineer

IME3 Co., Ltd   📅 11/2020 - 03/2021   📍 Tokyo, Japan

- Developed multiple pixel-perfect, responsive web pages from Figma designs using React, Next.js, and Vue.js, ensuring high-quality user interfaces aligned with design specifications.
- Integrated front-end applications with backend services via RESTful APIs, enabling seamless data exchange and dynamic content rendering.
- Utilized Docker and Kubernetes for containerization and orchestration, streamlining the deployment, scaling, and management of microservices in a cloud-native environment.
- Collaborated closely with cross-functional teams using Slack for communication and Jira for project management, while maintaining robust version control practices using Git, ensuring streamlined development workflows and seamless project delivery.

EDUCATION

Bachelor's Degree in Computer Science

Universiti Utara Malaysia   📅 2015 - 2020   📍 Kualar Lumpur, Malaysia