TAKAO MIZUNO

Github Account: https://github.com/takaomizuno0032

SUMMARY

Experienced Software Developer with 5 years in the industry, specializing in blockchain technology and cloud infrastructure. Proven track record in government-commissioned research projects, achieving the highest evaluation (S-rank) from the Japanese government. Seeking to leverage my expertise in this role.

WORK EXPERIENCE

Software Engineer | Gaiax Corporation | Tokyo, Japan **2022-Current**

- Led the development of a system for autonomous driving utilizing an open-source distributed ledger, for LiDAR data.
- Contributed to the the open-source repository by fixing build failures with the latest version
- Built a front-end using Next.js for users to download blockchain-stored data.
- Developed an algorithm using TypeScript to verify the integrity of blockchain-stored LiDAR data.
- Automated EC2 instance creation with CloudFormation, reducing setup time by 90%.
- Built a virtual LiDAR system in Go to transmit point cloud data to the system every 100 milliseconds for rapid testing.
- Developed smart contracts using Solidity.
- Filed a patent application for a blockchain-based system in Japan that proves the integrity of 3D data, ensuring it has not been tampered with.
- The system aims to be the next-generation infrastructure for decentralized storage of data used in autonomous driving development. It has the potential to become a critical component of future data storage solutions.

Software Engineer | AMIYA | Tokyo, Japan **2020-2022**

- Developed Japan's leading data security software in C#, managing a large-scale user base.
- Developed the large-scale software with a team of ten with Zira.
- Developed software in C# and TypeScript for windows event log management.
- Led a team of five to create new features for AWS FSx for Windows, reducing CSS initial load time by 80%.

Web Developer Intern | Nexceed | Tokyo, Japan **2019-2020**

- Created a web application for managing building materials in the architecture industry using Ruby on Rails.
- Optimized database queries and structures, reducing data insertion time significantly.

Education

The University of Queensland **2023-2024**
Master of Information Technology

The University of Tokyo **2014-2020**
Bachelor of Education in Physical and Health Education

Research Project

De-anonymization of Bitcoin Transactions Using Llama2
Research focuses on using Llama2 to deanonymize Bitcoin transactions and detect illicit activities. This involves aggregating transaction data and external sources, such as Google News articles on ransomware, to provide insights for cybercrime detection. This project highlights my expertise in LLMs.

Skills

Technical Skills

- Languages: TypeScript, JavaScript, C#, Python, Solidity, Rust, Java
- Frameworks: React, Node.js, Next.js, .NET Core
- Databases: MySQL, MongoDB, QLDB
- Infrastructure: AWS, Docker, containerd, Github Actions
- Others: Blockchain, Agile Development, LLMs

Soft Skills

- Team management, Communication

Awards

- International Onshore Merit Scholarship, The University of Queensland