

Harry Ermawan | Senior Software Engineer

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▪ Jakarta, Indonesia (7:00 UTC)

With an **8-year track record** in Software Engineering and **5 years in the Blockchain Industry**, I excel in building scalable **blockchain backend systems**, **integrating Web3 protocols**, and **designing secure APIs** for financial products. My expertise lies in **architecting** and **maintaining backend infrastructure** for **Web3 products**, including **staking rewards systems**, **yield features**, and **EVM-based swaps**. I have hands-on experience integrating **MPC wallets** and building scalable blockchain services using **Golang** and **Node.js**. I'm also passionate about **Blockchain** and keep up-to-date with best practices in **design systems** and **infrastructure hardening**.

Key Achievements

- **Three-time Founding Engineer** with a recent achievement of successfully **architecting and developing Pintu's Web3 swap across major chains**, facilitating over **\$260K in total swap volume**.
- Founding Engineer for Pintu Earn, also successfully architected and developed a **flexible earn** with an **AUM** of more than **18 million USD**, and a **locked earn** with an AUM of more than **\$600k**.
- Restructured the eFresh Business in collaboration with the CEO of eFishery, Head of Product, and VP of Fresh to eliminate bottlenecks in software development.

Technical Skills

- **Programming Languages:** Go, Solidity, Typescript, Javascript (NodeJs, ReactJs), PHP, Python
- **Development:** Foundry, Hardhat, Truffle, NodeJs, Web3Js, ReactJs, Webpack, Tenderly, gRPC, GraphQL, Jest
- **Monitoring:** AWS Cloudwatch, Datadog, Grafana, Sentry
- **DevOps:** Docker, Nginx, AWS (SNS, SQS, Lambdas, Gateway, Aurora, and EC2 instances), Github actions, Bitbucket Pipeline, K8s

Experience

PintuID | Software Engineer III

2021 – present

- Designed and implemented the system architecture for **Pintu Web3 Crosschain Swap** Aggregator
- Designed and implemented the system architecture for [Pintu Web3 EVM Swap Aggregator](#) with an average Swap Amount of around **+70k USD/day**.
- Designed and implemented the system architecture for [Pintu Web3](#) **Wallet Internal Tools** to manage the wallet, stuck transactions (on-chain), and stuck balances.
- **Founding Engineer for Pintu Earn**, also successfully architected and developed a flexible earn with an AUM of more than **18 million USD**, and locked earn with an **AUM of more than 600k USD**.
- Successfully managed **20% AUM earned** by developing and architecting staking validator features (internal tools)
- Engineered various components for [PTU Token](#) Staking and PTU Benefit
- Presented as a speaker at Web3 events, focusing on topics such as building on Web3 (including live coding of ERC-721 tokens) at the GDG (Google Developer Group) event.
- Conducted interviews with Software Engineer Candidates and served as a judge and creator for an internal Engineer DeFi Trading competition with a total prize of 15k USD

eFishery | Technical Lead - Supply Chain

2019 – 2021

- Reduces sales money loss by around 60% by developing a price lock for every product and a

real-time price catalog

- **Founding Engineer** for **Supply Chain, Lending, and Marketplaces** business unit
- Reduces time **user discovery by around 70%** by fast iteration using no-code or low-code MVP
- Conducted interviews with Software Engineer Candidates and Collaborated with cross-functional teams (CEO, Head Product, PM, Marketing, Sales, Ops)
- Successfully amassed over **25000+ data points** (leads, members, cultivation, sampling, and harvest) in areas with **poor network coverage**, achieved by developing fresh-hub apps and their API
- Engineered applications and services from concept to deployment, employing **Docker for containerization, Bitbucket CI/CD** for streamlined development, and **NGINX** for robust server management
- Transitioned API architecture from monolithic to microservices using Domain-Driven Design.
- Enhanced engineering branding by fostering a collaborative culture and establishing an Engineering Blog, attracting over **2000+ viewers** monthly.
- Reduced service downtime by **approximately 80%** through migrating all business unit data from Sheets API to RDBMS.
- Addressed **inconsistent app design** by initiating and developing a **comprehensive Design System**.

Open-Source Contributions

ETHEREUM ORG WEBSITE

March 2025

- Update all tutorials to use Sepolia for dApps development and Hoodi for Infrastructure Development
- Maintain Testnet Articles & Tutorials

Projects

Coffee Supply Chain | Solidity

Feb 2021

- Understanding the Coffee Supply Chain to Trace the Origin of the Beans
- Smart Contract with Solidity and Truffle

Education

Professional Qualifications and Certifications

- Solana Bootcamp (Apr 2025)
Solana Bootcamp by [Hackquest](#)
 - Rust Fundamentals
 - Anchor Fundamentals
 - Build Programs, NFT
- Blockchain Nano Degree (Jan 2021)
Blockchain Courses by Udacity - 5-month engineering focused on producing blockchain engineers through intensive hands-on coding, an exam at the end of each chapter, and weekly code reviews.
 - Bitcoin Core, Private Blockchain, Web3, Blockchain Data, Ethereum Account, Digital Signature
 - Solidity Syntax, ERC-20, ERC-621, ERC-721, ERC-827
 - Security(re-entrancy, Front-Running, Parity Attacks)
 - Blockchain on Supply Chain
 - Distributed File System and Oracle Data

Academic Education

- Bachelor of Computer Sciences, Binus University, Indonesia (2015 - 2019)
 - Thesis: Implementation of Loyalty Points using Blockchain (Stellar Network) on B2B Marketplaces (Ralali.com)