

HARRY ERMAWAN

Senior Software Engineer

Indonesia

+62-85156469207

harryermawan@gmail.com

LINKS

[Linkedin](#), [Github](#), [Medium](#), [Personal Website](#)

PROFILE

Software Engineer with a specialized focus on **Blockchain, and Cryptocurrency**. With **7 years of experience**, I have driven innovation in blockchain technologies and application development. My expertise lies in building scalable, secure backend systems using **Golang, and NodeJS**. My background in **Computer Science** informs my approach to improving product-market fit and system reliability in the web3 ecosystem. I have a proven track record of leading cross-functional teams, and delivering successful projects. Committed to shaping the future of cryptocurrency through strategic, data-driven solutions.

EMPLOYMENT HISTORY

❖ **Software Engineer III - Web3Wallet, Pintu.co.id** May 2023 — Present
Remote

Pintu, an Indonesian-based **crypto exchange**, has marked a significant milestone by securing **\$113 million USD** in its latest funding round.

- Designed and Implemented the system architecture for Pintu **Web3 EVM Swap** Aggregator with a **trade volume of more than 3xx000 USD daily**.
- Designed and Implemented the system architecture for **NFT (Non-Fungible Token) Transactions & Management Systems (EVM)**
- Developed a MPC Web3 Wallet focused on **token and cryptocurrency management (EVM)**.
- Developed a MPC Web3 Wallet focused on **transaction management systems (Contract Call, Send, and Receive EVM)**.

Tech Stacks: **Golang, Geth, gRPC**

❖ **Software Engineer II - Earn & Staking, Pintu.co.id** Oct 2021 — May 2023
Remote

- Served as a judge and creator for an **internal DeFi competition** with total prize **xx.xxx USD**
- Conducted **interviews** with candidates.
- Successfully architect, and develop **flexible earn** with **TVL more than XX+ million USD**
- Successfully architect, and develop **locked earn** with **TVL more than X million USD**.
- Successfully **manage XX% AUM Earn** by developing and **architect staking validator Solana and Matic features (internal tools)**
- Engineered various components for **PTU Staking (Pintu Token)**.
- Presented as a **speaker at Web3 events**, focusing on topics such as **building on Web3** (including **live coding of ERC-721 tokens**) at the **GDGxUSU** event in Medan.

Tech Stacks: **Golang, NodeJS, web3.js**

❖ **Technical Lead - Supply Chain, eFishery** May 2021 — Oct 2021
Remote

eFishery is now a **global aquaculture tech leader** based in Indonesia, achieving **unicorn status** with a **\$1.3 billion valuation** after a \$108 million Series D funding.

- Improve the **Supply Chain Productivity Team** by XX%.
- **Reduces sales money loss around 9X%** by developing a price lock for every product, and a real-time prices catalog.
- **Reduces times user discovery by around XX%** by fast iteration using **no-code or low-code MVP**
- Organized and prioritized work to complete assignments promptly and efficiently.
- Collaborated with cross-functional teams to achieve project goals promptly and effectively.
- Effectively participated in cross-team strategizing efforts to achieve optimal goals.

Tech Stacks: **Django, Golang, NodeJS, React**

Technical Domain Area: B2B, Ops, Warehouse, Pricing

❖ Software Engineer - Fish & Shrimp Farm, eFishery Jun 2019 — May 2021 Remote

- **Founding Engineer Supply Chain and Marketplaces for Fish & Shrimp Farm**
- Successfully amassed over **xx000+ data points (leads, members, cultivation, sampling, and harvest)** in **areas with poor network coverage**, achieved by developing fresh-hub apps and their API using **React, GraphQL, CouchDB, Sheet, and NodeJS**.
- 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**.
- Significantly reduced app and service downtime by adding observability & monitoring such as **Sentry and StatusCake**.
- Created **Data-Driven decision culture** for web apps by adding **GTM** and **GA** to **all web apps**
- **Solved inconsistent design apps** by initiating and developing a **Design System** with UI/UX Designer.
- Reduced **service downtime** by approximately xx% through **the migration of all business unit data** from **Sheets API** to **RDBMS (postgres)**.
- **Increase Engineering Branding** by created culture, and developed **Engineering Blog** by leverage **Strapi** and **React.js** which has more than **3000 viewers each month (medium as alternative)**
- **Reduce Onboarding & Development Times** by moved separate repository to **monorepo shared-component**
- Conducted candidate interviews from 2020 to 2021.

□ Tech Stacks: **NodeJS, React, GraphQL, Golang, Docker, Lerna, CouchDB**

❖ Software Engineer, Chipin.id Mar 2019 — Jun 2019 Jakarta, Indonesia

Chipin is pioneering platform in the crowdfunding space, focusing on enabling investors to buy stock in private companies.

- **Founding Engineer** & managed **two freelance software engineers**.
- Remove transaction bottlenecks by implement mutex
- Researched Blockchain **VeChain** and **PoA (proof of authority)** for tokenizing stocks
- Initiated and established a Design System Frontend using **ReactJS, Rebass, Lerna, Yarn Workspaces, Webpack** and **NodeJS**.

□ TechStacks: **React, Styled Components, NodeJS, Vechain, Laravel, Docker, K8s**

❖ Software Engineer, Ralali.com Mar 2018 — Feb 2019 Jakarta, Indonesia

Ralali.com is an online B2B marketplace that provides an easy transaction process through technology and features to help sellers and buyers do their business easier, safer, and more transparent with the latest funding round series C.

- **Reduces Cost Warehouse and SKU Management** from use **3rd Parties** into **inhouse SKU Apps** used JQuery and Laravel
- Created components and revamped pages **Ralali Marketplaces** which the largest B2B Marketplaces in Indonesia used AngularJS and Laravel
- Optimize & Revamp Ralali Search by xx% using **elastic-search (Front-end Side)** used AngularJS and Laravel
- **Optimize SEO by xx%** with implemented dynamic URL when search used AngularJS and Laravel
- Research & Implement Loyalty Point Ralali use **Blockchain SCP Consensus (Stellar SDK / XLM), NodeJS**

▯ Tech Stacks: **AngularJS**, **Laravel**, **JQuery**, **NodeJS**, **Stellar SDK**, **Docker**

EDUCATION

❖ **Bina Nusantara University** Aug 2015 — Feb 2019
Computer Science Jakarta, Indonesia

GPA: 3.4 from 4.0

Major: **Applied Database (Oracle DBA Academy)**

Thesis: **Implementation Loyalty Point (use stellar network and SCP Consensus) at B2B marketplaces.**

SKILLS

Golang <i>Experienced</i>	GraphQL <i>Experienced</i>
NodeJS <i>Experienced</i>	gRPC <i>Experienced</i>
EVM Blockchain <i>Experienced</i>	SCSS <i>Expert</i>
Solidity (Smart Contract) <i>Skillful</i>	SQL <i>Experienced</i>
Solana <i>Beginner</i>	PHP <i>Experienced</i>
ReactJS <i>Skillful</i>	Digital Marketing (SEO, SEM) <i>Experienced</i>
Docker <i>Experienced</i>	

COURSES

❖ **Blockchain Nanodegree** May 2021 — Aug 2021
Udacity

❖ **Google Kubernetes Engines** Jun 2019 — Jun 2019
Qwiklabs (Google)

❖ **Fullstack Web Development (PHP CI, JQuery, MySQL)** Nov 2016 — Oct 2017
Babastudio.com

❖ **Digital Marketing** Nov 2016 — Oct 2017
Babastudio.com

COMMUNITY & ORGANIZATION

❖ **Volunteer at JakartaJS** Nov 2017 — Jul 2019
JakartaJS - Help the Organizer & Community Jakarta, Indonesia

LANGUAGES

English *Working knowledge* Indonesian *Native speaker*

AWARDS

❖ **2nd Place STARTUP WEEKEND 2019** Apr 2019 — Apr 2019

Startup Weekend by TechStar is a competition to build your startup with 54 hours. Got 2nd Place at Startup Weekend 2019 as Co-Founder (Product & Engineering)