

Hafiz Joundy Syafie

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EDUCATION

Universitas Terbuka

Bachelor's Degree in Business Management

Jan 2025 - Present

Telkom Vocational High School

Diploma in Software Engineering

Jul 2015 - Jul 2018

PROFESSIONAL EXPERIENCE

Software Engineer

Nov 2025 - Present

Evius | evius.work

Building blockchain-backed products for verifiable integrity and tamper-proofing.

Credenza

Certificate issuance platform with on-chain proofs.

- Owned the product end-to-end: WebGL template editor, issuance API, PDF pipeline, and smart contract.
- Shipped a Pixi.js v8 editor with a custom text layout engine, unlocking pixel-accurate design-to-PDF output.
- Designed a Merkle-root + bitmap proof scheme, enabling thousands of certificates per transaction with $O(1)$ revocation.
- Cut on-chain issuance cost by 99% vs per-certificate writes through batch anchoring.

Garda Protocol

Tamper-proof audit log anchored on-chain.

- Led the protocol and platform design: record DAG, signing, anchoring, and verification SDK.
- Engineered a dual-store design: MongoDB holds signed records, Neo4j mirrors the content-addressed DAG, powering hop-bounded Cypher ancestry traversals.
- Authored the Solidity registry and worker-based batch anchoring pipeline with transactional rollback on chain failure.
- Delivered a typed JSON-RPC SDK with Ed25519 challenge-response auth, making every record cryptographically attributable.

Technologies: TypeScript, Pixi.js, Solidity, Ethers.js, Ed25519, MongoDB, Neo4j, PostgreSQL

Software Engineer

Mar 2025 - Oct 2025

Freelancer

Freelance software engineering work focused on AI-powered retail tooling.

Hyperetail (discontinued)

Participated in shaping the product from the ground up to MVP. Built core features end-to-end, covering both the frontend panel/dashboard and the backend services.

- **AI form builder:** Generates complete forms from a plain-text prompt, turning a short description into a ready-to-use data collection flow for field teams.
- **AI instant report:** Produces narrative reports from the dashboard charts and compares them against real-world metrics to surface areas that can be improved.
- **Retail shelf analysis:** Image analysis pipeline using YOLO fine-tuned on SKU110K for product detection, combined with OpenAI CLIP for zero-shot classification.

Technologies: TypeScript, Python, YOLO, OpenAI CLIP, AI/ML

Software Engineer (Freelance / Consultant)

Oct 2024 - Mar 2025

Glitr | glitr.fi

Native Bitcoin Smart Contracts, Execution, & Settlement

- Developed the core protocol that parses Glitr scripts from Bitcoin OP_RETURN transactions and indexes data by contract/asset type. Contributed to protocol design decisions around performance and efficiency.
- Built foundational features: error standardization, asset state management, minting, transfers, and asset ticker system. Designed for extensibility to support future protocol changes.
- Implemented Brotli compression and Borsh serialization for Glitr scripts. Created custom data types (varuint/varint, base26) to maximize efficiency within Bitcoin's limited OP_RETURN size.

Technologies: Rust, Bitcoin, Docker, Ordinals, Rune

Software Engineer (Freelance)

May 2024 - Oct 2024

East Layer | eastblue.io

The Universal Application Layer for Bitcoin

- Built East Bitcoin SDK for JavaScript: PSBT transaction builder, fee calculator, and address utilities. Supports creating Bitcoin transactions including Rune token mints and Ordinals NFT inscriptions.
- Rewrote the Rune protocol from Rust to AssemblyScript with full compatibility, including script encoding and serialization. Used as a sidecar to index Rune protocol in East layer.
- Built Regbox, a local development toolkit that runs Bitcoin Core, Electrum server, and block explorer. Simplifies local Bitcoin development by bundling all required services.

Technologies: Rust, Go, Docker, Bitcoin, Ordinals, Rune, AssemblyScript

Software Engineer

Nov 2023 - Apr 2024

Cake Group | ordzaar.com

Bitcoin Ordinal NFT Marketplace/Launchpad

- Maintained Bitcoin indexer infrastructure and added features such as ordinal pointer support.
- Integrated Leather wallet into the Ordzaar platform.
- Built an early proof of concept for Bitcoin Rune protocol before official documentation existed. Demonstrated core functionality and drafted the initial SDK.

Technologies: Rust, TypeScript, Docker, AWS, React, Bitcoin, Ordinals, Rune

Backend Engineer

Jan 2022 - Nov 2023

Paras | paras.id

The largest NFT Marketplace in Near Protocol

- Migrated legacy infrastructure to Kubernetes (GKE). Set up clusters, containerized services with Docker, configured IAM and K8s RBAC, and tuned auto-scaling for production workloads.
- Set up monitoring with Grafana, Prometheus, and Loki for real-time metrics, centralized logging, and alerting.
- Optimized the indexer to process 1000+ block logs per second. Added NEP-171 contract whitelisting for reliable on-chain/off-chain data synchronization.
- Developed NFT peer-to-peer trading for the smart contract with a refund mechanism to handle approval failures.
- Built locked staking for the smart contract, allowing users to lock tokens for a period to earn rewards and help stabilize the Paras token price.

Technologies: Rust, JavaScript, MongoDB, Prometheus, Loki, Docker, Kubernetes, GCP

Backend Engineer

Jan 2020 - Oct 2021

Ruangguru | ruangguru.com

Education tech company

- Built authorization service and middleware library using gRPC instead of HTTP. Migrated 50+ services to the new system, reducing bandwidth and simplifying microservice integration.

- Developed user impersonation feature integrated with RBAC. Used by internal teams for bug reproduction while maintaining access controls.
- Consolidated reward systems into a unified service. Authored documentation and presented the design to the engineering team.
- Built real-time leaderboard for Ruang Belajar platform. Load tested with 10k concurrent users.

Technologies: Golang, MySQL, Redis, Elasticsearch, Docker, Kubernetes, GCP, gRPC

Backend Engineer

Sept 2018 - Dec 2019

Telkom Indonesia (Codex) | telkom.co.id

Telecommunications network company

- Designed database schema for HR management apps and migrated from SQL to MongoDB for improved flexibility.
- Built live coding feature for Codex Assignment App to assess candidates' programming skills in real-time.

Technologies: Node.js, GraphQL, MongoDB, Docker, OpenShift

TECHNICAL SKILLS

AI/ML • AWS • AssemblyScript • Bitcoin • Docker • Ed25519 • Elasticsearch • Ethers.js • GCP • Go • Golang • GraphQL • JavaScript • Kubernetes • Loki • MongoDB • MySQL • Neo4j • Node.js • OpenAI CLIP • OpenShift • Ordinals • Pixi.js • PostgreSQL • Prometheus • Python • React • Redis • Rune • Rust • Solidity • TypeScript • YOLO • gRPC