

FATWA ANUGERAH NASIR

Senior Full Stack Engineer · Remote (APAC, EU & Global)

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PROFESSIONAL SUMMARY

Senior Full Stack Engineer with 5+ years of experience building high-performance real-time systems, trading infrastructure, and scalable web/mobile platforms for global remote teams. Specialised in **TypeScript, Javascript, Go, React.js, React Native, Next.js, and Flutter**, with deep expertise in WebSocket-based architectures, automated trading systems, and cloud-native deployments across **AWS, Azure, and GCP**. Proven track record of:

- Architecting high-performance trading infrastructure — concurrent backtesting engine processing multi-year OHLCV datasets
- Architecting and maintaining **15+ automated trading bots** processing \$2+ millions in monthly trading volume
- Mentoring engineers and driving architecture decisions across distributed, remote-first teams
- Delivering cloud-native solutions with **CI/CD pipelines** on Azure, GCP, and AWS for rapid, reliable deployment

PROFESSIONAL EXPERIENCE

Senior Software Engineer — AVASO Technology Solutions

Sep 2022 – Feb 2026 | Remote

- Architected a concurrent backtesting engine leveraging **Node.js worker_threads** to parallelize strategy simulation across all available CPU cores, processing multi-year OHLCV datasets in a fraction of single-threaded time.
- Built a **real-time web dashboard** for the backtesting platform, **streaming live results** and surfacing performance metrics — **Sharpe ratio, max drawdown, win rate** — enabling rapid strategy iteration.
- Designed, deployed, and maintained **15+ automated trading bots** performing real-time market data ingestion and automated order execution across multiple exchanges, processing **\$2M+ in monthly trading volume**.
- Engineered **WebSocket-based real-time infrastructure** supporting high concurrent connections with sub-100ms latency, enabling high frequency data delivery.
- Designed and developed scalable services in **TypeScript** and **Go**, handling real-time data streams and order execution.
- Built modern web and mobile applications with **React.js, Next.js, React Native, Flutter**.
- Optimised **SQL database** schemas and query execution plans for performance and integrity across high-throughput production environments.
- Containerised and deployed production workloads on **Azure** using Docker Compose and automated **CI/CD pipelines**, ensuring zero-downtime releases.
- Led and mentored a team of engineers, shaping architecture decisions, enforcing code quality standards, and accelerating team delivery velocity.

Full Stack Developer — SDConnect.VN

Jan 2022 – Sep 2022 | Remote

- Accelerated frontend rendering performance by **60%**, reducing initial load time from 4s to under 1.5s via code splitting, lazy loading, and asset optimisation using **Next.js** and React Native.
- Engineered **Redis-backed caching layers** and query optimisation strategies, reducing average database response time by **55%** across high-traffic endpoints.
- Streamlined development lifecycle by standardising reusable component libraries and API contracts, reducing feature delivery time by **35%**.
- Architected **Redis-backed caching and query optimisation pipelines**, achieving 40% reduction in API response latency under production load on GCP with Docker-based workflows.

Junior Full Stack Engineer — Emolyze.Tech

Feb 2021 – Jan 2022 | Remote

- Constructed an **internal analytics dashboard from scratch**, delivering real-time visibility into client KPIs and eliminating manual reporting workflows.
- Engineered a **REST API integration layer from zero** to unify third-party data sources into existing client systems, improving data consistency and access speed.
- Developed responsive web applications using **Next.js** and **TailwindCSS**, and built backend services with **Express.js**, **Redis**, and **MySQL**.
- Deployed and managed containerized applications on **AWS** using Docker, while establishing foundational **CI/CD pipelines** to streamline the engineering team's deployment workflow.

CORE TECHNICAL SKILLS

Languages:	TypeScript, JavaScript, Go, Java, Python, Dart
Frontend:	React.js, Next.js, React Native, Flutter, TailwindCSS, Shadcn UI
Backend:	Node.js, Express.js, Fastify, REST API, GraphQL, WebSocket, WebRTC
Databases:	PostgreSQL, MySQL, Redis, NoSQL, Query Optimisation
Architecture:	Distributed Systems, Event-Driven Systems, Microservices, Realtime Systems
Realtime:	WebSocket, WebRTC, Concurrent Connections, Background Services
Cloud & DevOps:	NGINX, Linux, AWS, GCP, Azure, Docker, Docker Compose, Kubernetes, GitHub Actions, CI/CD
API Design:	REST, GraphQL, API Contracts, Versioning, Rate Limiting
Tools:	Git, Bun, Agile / Scrum, Figma

KEY PROJECTS

Privacy Chat App | *TypeScript, WebSocket, End-to-End Encryption, Flutter*

github.com/fatwaanugerah21/privacy-chat-app

- Architected a secure, privacy-first cross-platform chat application (Android & iOS) with end-to-end encrypted messaging.
- Implemented real-time 1-to-1 messaging via **WebSocket** with **FCM push-notification fallback** for offline delivery reliability.

Backtesting Platform | *Node.js, worker_threads, WebSocket, React.js, TypeScript*

- Architected a high-performance backtesting engine utilizing **Node.js worker_threads** to parallelize strategy simulation across all available **CPU cores**, processing **multi-year OHLCV candle data** in a fraction of single-threaded time.
- Engineered real-time results streaming via **WebSocket** to a web dashboard surfacing key trading performance metrics — **Sharpe ratio, max drawdown, and win rate** — enabling rapid strategy iteration.

Automated Trading Bot Platform | *TypeScript, Go, WebSocket*

- Designed and maintained a fleet of **15+ trading bots** with real-time market data ingestion, order execution, and risk management logic.
- Built monitoring dashboards and alerting systems to ensure uptime and trading accuracy across all active bots.

EDUCATION

Bachelor of Computer Science — Hasanuddin University

2019 – 2023 | GPA: 3.54 / 4.00

- Relevant Coursework: Algorithms & Data Structures, Distributed Systems, Database Systems, Software Engineering, Computer Networks

LANGUAGES

Indonesian:	Native
English:	Fluent (Professional Working Proficiency)

WORK PREFERENCES

- Fully Remote — APAC, EU & Global startups preferred
- Open to async & cross-timezone collaboration (APAC, EU, US timezones)
- Fluent English communication — experienced with international distributed teams
- Immediately available