EGUIN JONATHAN

Software Engineer | Backend & Full-Stack (Go, TypeScript)
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SUMMARY

Software engineer with 2+ years of experience building backend services, data pipelines and IoT. Strong in Go, Python, Rust, Next.js, Svelte and React Native, with hands-on work in time-series performance optimization and device connectivity over Modbus, MQTT, WiFi and Bluetooth. Familiar with agentic coding workflows using agent harness such as Claude Code and Pi. Seeking remote backend or full-stack roles.

EXPERIENCE

PT Century Batteries Indonesia *Karawang, Indonesia | Nov 2024 – Present*

Software Engineer (Contract), Product Engineering *Jul 2025 – Present*

- Cut load time on a telemetry platform holding 300M+ time-series data points from ~5 minutes to under 10 seconds (~30x faster) using database indexing and LTTB downsampling, which keeps charts visually identical to the raw data.
- Built a reusable Python Modbus connector for collecting data from different industrial IoT devices.
- Developing a pre-release React Native consumer app for device telemetry over WiFi, Bluetooth and MQTT, and wrote the Arduino IDE firmware connector that links the IoT devices to it.
- Implemented Redis caching and Redis Streams for an event-driven telemetry data pipeline.
- Develop and maintain Go backend services and Next.js web interfaces, handling most implementation work independently.

Full-Stack Developer Intern *Nov 2024 – Jul 2025*

- Developed a Product Engineering Dashboard for the company's Digitalization Project, improving operational efficiency and data accessibility.
- Built and maintained backend APIs in Go for integration with the web application.
- Debugged and refactored existing code to improve functionality and reduce technical debt.

PROJECTS

- **NexusBus**: FastAPI middleware for Modbus TCP/RTU with REST device management, automated polling with in-memory caching and real-time MQTT publishing. Python, PostgreSQL, Docker.
- **ESP32 PC Remote**: ESP32-S3 firmware that wakes a PC by on-device voice command, Telegram or MQTT, with a React/Vite control dashboard. ESP32, MQTT, React.
- **Pi Agent Extensions**: Custom extensions for the Pi AI coding agent: SonarQube analysis inside the agent (published on npm) and a tiered long-term memory system (pi-observational-memory). TypeScript.
- **auth-go**: Go (Gin) authentication service with Argon2id passwords, short-lived JWTs, rotating refresh tokens with replay detection, GitHub/Google OAuth, and rate limiting. PostgreSQL, Redis, Docker.

TECHNICAL SKILLS

Backend: Go (Golang), Python, Rust, Nest.js, Express.js; REST and WebSocket APIs

Frontend & Mobile: Next.js, React, React Native, Svelte, SvelteKit, Astro, Vue, TypeScript, Tailwind CSS

AI & Agents: Pi agent harness (custom extensions), Claude Code, agentic coding

IoT: Modbus, MQTT (Mosquitto), Bluetooth, WiFi, Arduino

Data: PostgreSQL (Postgres), Redis (caching, Redis Streams), MySQL, SQL Server, MongoDB

DevOps & Tools: Linux, Neovim, terminal-based workflow, Docker, Podman, Nginx, CI with GitHub Actions, Git, GitHub, GitLab

EDUCATION

Universitas Singaperbangsa Karawang (UNSIKA) *2023 – Jan 2025*

Informatics studies (GPA 3.9); left to pursue full-time software engineering work.

LANGUAGES

Indonesian (native) | English (advanced) | Japanese (beginner)