

# Michael Buntarman

+62 821-3766-1758 · michaelboentarman@gmail.com  
linkedin.com/in/micbun · github.com/MicBun · micbun-ai.vercel.app

## SUMMARY

---

Lead Software Engineer with 6+ years of remote experience across US and APAC time zones. Lead maintainer of kwil-db, an open-source distributed database in Go on PostgreSQL (1,100+ commits, 27 releases). Currently architecting backend systems processing 500K+ daily transactions across 50M-row PostgreSQL deployments. Strong in Go, Python, TypeScript, PostgreSQL, Docker, and AWS.

## PROFESSIONAL EXPERIENCE

---

**Lead Software Engineer** | TRUF.NETWORK (Truflation), Austin Feb 2024 – Present  
*Remote · Promoted from Backend Engineer, Apr 2025*

- Core maintainer of **kwil-db**, the open-source database powering TRUF.NETWORK's production system. Shipped 27 production releases over 1,100+ commits, own release engineering across schema migrations and performance regressions, and review PRs from 30+ external contributors.
- Architected backend services processing 500K+ daily transactions on 50M-row PostgreSQL deployments. Drove a 5x throughput scale-up from a 100K baseline on commodity hardware via core algorithm and storage optimizations.
- Designed a daily data digest / pruning architecture projected to achieve up to 96% storage reduction.
- Designed cryptographic verification layer producing tamper-evident query results for downstream consumers.
- Maintain official Go, Python, and TypeScript client SDKs with cross-language API parity. Engineered custom transport abstractions enabling third-party platform integrations.
- Manage AWS deployments (EC2/RDS/S3) with CI/CD pipelines. Reduced cloud cost ~20% while maintaining 100% SLA. Mentor team across database, node, and SDK projects.
- Operated async with US-based team across 12-hour timezone gap.

**AI Training Expert, Coding** | Outlier (Scale AI) & Mindrift (Toloka AI) Mar 2024 – Present  
*Remote · Part-time Contract*

- Authored reproducible Docker evaluation environments and pytest frameworks (>85% line coverage) for SWE-Bench style coding benchmarks across Python, Go, JavaScript, and TypeScript — used in LLM RLHF training pipelines.
- Developed end-to-end code-migration evaluation tasks for cross-language rewrite benchmarks (Python↔Go, Python↔TypeScript), including JUnit-based test parsers and agent evaluation harnesses.
- Performed structured rubric-based scoring and response ranking on multi-model LLM outputs with detailed written justification, identifying failure modes such as cross-language interop bugs and interface mismatches.

**Intermediate Software Engineer** | Deals (YC W22), Jakarta Feb 2023 – Feb 2024  
*Remote*

- Developed backend services using Domain-Driven Design with >90% test coverage (pytest / Go testing), powering reliable HRIS and mentoring platforms.
- Added Redis caching and query optimizations that reduced response time by 40% on high-traffic endpoints.

**Junior Software Engineer** | SIRCLO, Jakarta Mar 2022 – Feb 2023  
*Remote*

- Delivered Node.js / JavaScript data integration workflow serving 4,000+ tenants across e-commerce platforms (Lazada, Shopee, Tokopedia), contributing to 30x sales growth.
- Optimized GraphQL resolvers via DataLoader, achieving ~40% system load reduction on the integration layer.

**Founding Software Engineer** | Cross Network Indonesia, Surabaya Dec 2019 – Mar 2022  
*On-site*

- Created and maintained student activity portal, mentored 5+ internship teams, and drove 80%+ increase in student participation.

## OPEN SOURCE & PROJECTS

---

### **kwil-db — Lead Maintainer** ([github.com/trufnetwork/kwil-db](https://github.com/trufnetwork/kwil-db))

- Open-source distributed database written in Go on PostgreSQL — 48 stars, 30 forks, Apache 2.0 / MIT. Architected extensions framework supporting custom oracles, authentication, and deterministic compute. Oversee feature direction, performance tuning, and security disclosures.

### **TRUF.NETWORK Node** ([github.com/trufnetwork/node](https://github.com/trufnetwork/node))

- Core blockchain node atop the Kwil framework — 1,500+ commits, 36 releases. Production system serving TRUF.NETWORK's mainnet, deployed via AMI, Docker Compose, and AWS automation. Implemented MCP (Model Context Protocol) server for AI client integration with on-chain data. Designed validator attestation system for cryptographically verifiable query results.

### **TRUF.NETWORK SDKs** ([sdk-go](#), [sdk-py](#), [sdk-js](#))

- Maintain official Go, Python, and TypeScript SDKs with idiomatic API design and cross-language parity. Engineered transaction lifecycle abstractions (WaitForTx, sync-broadcast) preventing race conditions in async client code. Built custom transport layer for third-party platform integrations. Implemented cryptographic signature verification for tamper-evident query results.

### **AI CV Analyzer — Personal Project** ([micbun-ai.vercel.app](https://micbun-ai.vercel.app))

- Full-stack AI tool providing structured CV feedback, ATS scoring, and rubric-based analysis. Built Next.js 15 / TypeScript app with shadcn/ui and Tailwind, deployed on Vercel with Next.js API routes powering the backend. Implemented Anthropic Claude integration via structured outputs (Zod-validated schemas through the Anthropic SDK) with prompt engineering tuned for consistent rubric scoring. End-to-end ownership across design, model selection, frontend UX, backend API, and deployment.

## TECHNICAL SKILLS

---

**Languages:** Go, Python, TypeScript, JavaScript, SQL, GraphQL, Bash

**Databases & Backend:** PostgreSQL (50M+ row scale), Redis, Kafka, GraphQL APIs, SDK design

**Infrastructure:** Docker (multi-stage, reproducible envs), AWS (EC2/RDS/S3), Linux, Git, CI/CD

**Testing:** pytest, Go testing, integration & black-box testing, 85%+ coverage

**Distributed Systems:** Distributed databases, replication, transaction lifecycle design, performance optimization

**AI Tooling:** Claude Code (daily workflow), Anthropic Claude API integration (structured outputs), LLM evaluation, RLHF pipelines

## EDUCATION

---

**M.S. in Information Technology — University of the People, Pasadena, California** Expected Jul 2027  
WSCUC-accredited (US regional accreditation). Relevant coursework: Cloud Computing, Database Systems, Software Engineering, Information Security.

**B.S. in Computer Science — Petra Christian University, Surabaya, Indonesia** Aug 2017 – Apr 2021  
GPA: 3.63 / 4.00. Coursework: Machine Learning, Data Mining, Database Systems, Algorithms & Data Structures, Object-Oriented Programming, Software Engineering. Taught CS practicum courses (data analytics, machine learning) — 90%+ student satisfaction across all four courses.

## KEY HIGHLIGHTS

---

- Scaled production blockchain database 5x in throughput (100K → 500K+ tx/day).
- Lead maintainer of an open-source decentralized database (kwil-db) with active community contributions and 27+ public releases.
- Use AI-based development tools (Claude Code, LLM-powered workflows) daily to accelerate software development cycles, reduce repetitive tasks, and enhance code quality.