Ahmad Berahman

Staff Software Engineer | Go • AWS • GCP • Distributed Systems
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Backend and platform engineer with 15+ years building production systems in Go and Python. Track record of leading legacy-to-microservices migrations, owning backend platforms from technical design through production support. Experience spans high-traffic consumer platforms and regulated environments.

Core Skills

Languages: Go (primary), Python
Distributed systems: microservices, concurrency, event-driven architecture, system design, API design
APIs and protocols: REST, gRPC, Protocol Buffers
Cloud and infrastructure: Kubernetes, Docker, Terraform, Helm, Flux, GitOps, AWS, GCP
Data and messaging: PostgreSQL, MySQL, Redis, MongoDB, Kafka, NATS, RabbitMQ, Pub/Sub, SQS, BigQuery
Engineering practice: architecture ownership, technical design, mentoring, code review, observability, CI/CD
AI Development Tooling: Claude Code, Codex, Gemini

Work Experience

Software Engineer SE7 | Roche | Nov 2024 – Present

- Design and deliver backend capabilities for managing multi-node Kubernetes environments, including node add, remove, and replace lifecycle operations, asynchronous status tracking, and platform APIs in Go and Python.
- Modeled nodes and clusters as separate domain entities and exposed in-flight operation progress through the API, so callers can distinguish an accepted request from a completed infrastructure change.
- Built an application registry, including API contracts, relational data modeling, versioning, and compatibility management, giving teams a single source of truth for application and release information with access control designed in from the start.
- Own features end-to-end, including stakeholder discussions, technical design, implementation, release, and production support, translating operational requirements into API behavior and management workflows.

Stack: Go, Python, Kubernetes, Helm, Flux, AWS, Terraform, PostgreSQL

Principal Software Engineer | Paack | Oct 2022 – Oct 2024

- Led the architecture and execution of the move from a legacy application to Go and Python microservices, sequencing the work around service dependencies and live integrations so delivery operations were not disrupted.
- Set technical direction with product and business stakeholders, turning delivery-operations

requirements into service boundaries, architecture decisions, and implementation plans.
- Designed and built the routing algorithm behind package delivery assignment and integrated data-informed features, improving routing efficiency and scalability.
- Mentored junior and mid-level engineers, ran design and code reviews, and stayed hands-on across services.

Stack: Go, Python, Kubernetes, GCP, gRPC, PostgreSQL, Redis, Kafka, Pub/Sub

Senior Software Engineer | Getir | Oct 2020 – Oct 2022

- Led the migration of legacy Node.js services to Go and Python microservices, redesigning service boundaries to support rapid growth and improve performance.
- Built production observability with AWS CloudWatch and Sentry, shortening the time to detect and respond to production issues.
- Drove analytics integration across teams, giving product and engineering visibility into user behavior and system performance.

Stack: Go, Python, AWS, Kafka, RabbitMQ, gRPC, Redis, PostgreSQL, MongoDB

Senior Software Engineer | Snapp! | Apr 2017 – Oct 2020

- Rebuilt and scaled backend services across the super-app's ride-hailing, fintech, and travel verticals.
- Reduced response times by up to 50% by diagnosing and fixing concurrency issues while rebuilding legacy services in Go as part of the move to microservices.
- Initiated and delivered Instant Cash Out, enabling drivers to withdraw their earnings automatically.
- Initiated Passban to recover outstanding passenger debt, and an internal ERP product that removed manual work from the fintech team.

Stack: Go, PHP, gRPC, REST, Kafka, NATS, Redis, PostgreSQL, MySQL, Kubernetes

Software Engineer | Barayand | Mar 2014 – Jul 2017

Released more than 20 applications from a shared codebase and designed the application architecture using MVVM.

Software Developer | ICTN | Oct 2009 – Mar 2013

Migrated a water utility management application from desktop to web within three years and on budget. Converted legacy data to the new schema, supported existing applications, and implemented data warehousing and partitioning.

Education

- Master of Artificial Intelligence | University of York | 2024
- Bachelor of Computer Science, Software Engineering | 2007

Certifications

- AWS Certified Solutions Architect - Associate
- Amazon Web Services Developer - Associate
- GCP Professional Cloud Developer - Professional
- GCP Cloud Engineer

Community

Tech workshop facilitator, Code4All: free hands-on Go and Python workshops for beginners, with individual mentoring.