

# Ahmad Berahman

Senior Backend Engineer / Staff Backend Engineer

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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, PHP

**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

## 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.