NIRDOSH GAUTAM

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Skills

- Backend Development | **Golang** | Go | Go Gin | Go Granitic | **Ruby** | **Ruby on Rails(RoR)** | React | SQL / NoSQL
- **AWS** Services | AWS Cloudformation (similar to Terraform) | Infrastructure as Code(IAC) | DevOps | IAM | VPC | ECS | DynamoDB | S3 | RDS | Platform Engineering | Serverless Architecture | Developer Tooling
- Microservices | Docker | Linux | Containers | Kubernetes | Event Processing | Background Processing | Distributed Tracing | Logging | Alerting | REST API | JWT | GraphQL | Cloud-native | Solution Design | Technical Documentation | Data Analytics

Experience - 8 years

Senior Software Engineer   **Myagi**   *Australia (Remote)*   **Jan 2022 - Aug 2023**

- Worked in a sales enablement platform and built backend solutions in **Go** and **AWS**. Developed **Analytics APIs** in **Golang** using **GraphQL.**
- Collaborated closely with PM and UI/UX team to refine requirements and build **user-centric** features by actively iterating over the client's feedback.
- Refactored and migrated legacy **analytics APIs**, and improved performance of critical dashboards.
- Experimented and integrated third-party services like **Clickhouse, DuckDB**, and **Transifex**(for translation).
- Built **data sync process** to migrate analytics queries from **Postgres** to **ClickHouse**.
- Deployed and managed AWS-hosted services using **Infrastructure as Code (AWS Cloudformation)**.
- CI/CD with **Buildkite**, technical documentation, cost analysis, API load/stress testing(**Apache JMeter**), and unit tests.
- Produced high-quality technical documentation for all technical initiatives and features, which positively impacted the internal team, motivating all to prioritize documentation.
- Monitored and fixed production issues.

Senior Software Engineer   **CloudFactory**   *Kathmandu, Nepal*   **Jul 2020 - Dec 2021**

- Built a cloud-native event-based microservice platform in Go in AWS for time tracking and scheduling platform with **end-to-end ownership**. **Transitioned to new technologies and different roles** as needed by the business.
- Built backend services using a wide variety of **AWS services** like IAM, ECS, ECR, ALB, Lambda, S3, RDS, CloudWatch, Backup, ElasticSearch, DynamoDB, SQS/SNS, Codebuild, API Gateway, Athena, CloudFormation, Quicksight, and IAM in multiple AWS accounts.
- Worked in a **shared team** to build foundational platform components and tackle common tech issues across teams.
- **Removed tight dependencies** on infrastructure and services due to which updates and rollbacks were fast and less error-prone, cyclic dependencies were eliminated, and manual intervention was reduced.
- Revamped **configuration management system** for microservices with a new schema deployed as a shared service which enforced single-source of truth, removed duplicates, and simplified the process.
- Heavily contributed to shaping the engineering guidelines for the new platform collaborating with senior architects. Wrote **high-quality technical documentation**.
- Collaborated with product managers and different stakeholders to build **user-centric** features.
- Setup process/template to backup and restore RDS and DynamoDB and manage restored DB from Cloudformation.
- Designed, developed, and documented **Golang APIs** with **distributed tracing** enabled using **Jaegar/Kibana** stack.

- Improved code bases, migrated legacy services to cloud-native Golang service, and addressed technical debts.
- Set up **CI/CD** in AWS and integrated analysis/security tools like [SonarCube](#) for Monorepos.
- Processed events and set up **analytics pipeline** using AWS SQS/SNS, Lambda, S3, Glue, Athena, and Quicksight. Defined a process to create and manage Quicksight dashboards, data sources, and users.
- Built [CLI tool in Go](#) and revamped AWS account cleanup process for ephemeral environments like dev, and staging which reduced errors and saved time/cost. Wrote scripts to create a new environment(e.g. prod2) from scratch within a few hours to practice disaster recovery.
- **Increased productivity** by building **developer tools** like automatic API doc centralization using **OpenAPI** specs, **mock servers** for local development, and **boilerplate generation** for new services and DB backup/recovery.
- Collaborated with **cross-functional teams** to improve product and engineering practices. Participated in downtimes, postmortems, and on-call duties.
- Conducted **extensive code reviews** against functional and non-functional requirements. Collaborated with different teams for different user-facing features, and technical initiatives, sharing knowledge on specific technologies.

Software Engineer   [CloudFactory](#)   *Kathmandu, Nepal*   **Jul 2017 - Jun 2020**

- Built backend for scheduling and time tracking features on Ruby on Rails microservices platform using MySQL, Postgres, Sidekiq, Memcache, RabbitMQ, and Redis.
- Conducted initial research, POCs, and load testings for building a new platform in Go/AWS. Switched to multiple roles e.g. Backend Dev, DevOps, and Platform Engineer while learning and owning technical initiatives end-to-end.
- **Onboarded engineers** to the new language(GO), AWS Services, and end-to-end ownership of cloud-native services by conducting training and 1-1 mentoring.
- Built **REST APIs** in **Golang** and **Ruby** with Swagger(OpenAPI) documentation. Added caching layer using Redis and DynamoDB DAX.
- Built Payout/Payroll management tool and **reduced manual payment settlement time** for 3K users from 1-2 weeks to 2-3 days increasing transparency and accuracy. Handled complex calculations and different labor laws across two countries.
- Participated in on-call duty, and improved technical documentation of the platform.
- Containerized Ruby on Rails services and built **developer tools** to increase **productivity**.

Workflow Developer   [CloudFactory](#)   *Kathmandu, Nepal*   **May 2015 - Jun 2017**

- Worked in a **Rails-based data digitization** / **micro-tasking** platform and designed and built **custom workflows** for AI/ML clients meeting security requirements like **HIPAA**.
- **Led a team** with frontend, backend, and QA engineers and managed and delivered multiple projects within strict timelines.
- Wrote **reusable** micro-tasking functions in **Ruby** for similar use cases(workflows) in data labeling. e.g. receipt processing
- Worked in a specialized cross-functional team comprising engineering, client success, and people management teams to serve 4-6 clients and their workflows.
- Onboarded clients, performed **API integrations,** built workflows, handled upgrades, and resolved production issues to meet strict turn-around times.
- Migrated legacy PHP-based text autocomplete API to Ruby.

Education

Bachelors in Computer Engineering	**Kathmandu University**	*Dhulikhel, Nepal*	**2011-2015**

Projects

- [cfn-teardown](#)   Go CLI to clean up large sets of dependent AWS Cloudformation stacks gracefully.
  Used for AWS account with 500+ stacks saving time/cost needed for manual intervention.

- [tracer](#)   A network diagnostic tool in Go, similar to traceroute.

- [goplayground.dev](#)   Go playground with extra telemetry like escape analysis, cpu/memory/goroutine profiles.
  It is the implementation of my [go-sandbox](#) project.

Certifications

- [AWS Certified Solution Architect - Associate](#): Designing well-architected distributed systems in AWS.
- [CKAD: Certified Kubernetes Application Developer](#): Developing and managing services in Kubernetes.