

Nithin P

Senior Go Software Engineer – Backend, Distributed Systems & Observability

Cochin, Kerala, India

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Professional Summary

Senior Go Software Engineer with 10+ years of experience building scalable, cloud-native backend systems and distributed services. Currently working on the IBM Instana Go Tracer, specialising in distributed tracing, OpenTelemetry instrumentation, observability, and CI/CD automation. Proven experience in owning critical components, maintaining open-source libraries, and collaborating with global engineering teams and CNCF communities.

Professional Experience

IBM – Go Software Engineer

Oct 2023 – Present

Cochin, Kerala, India

- Core contributor and maintainer of the **IBM Instana Go Tracer SDK**, supporting distributed tracing for production-grade, cloud-native Go services.
- Designed and implemented new features, bug fixes, and performance improvements across multiple Go instrumentation libraries.
- Led end-to-end development of **Couchbase (GOCB) SDK instrumentation** for Go, from design to production release.
- Owned version compatibility, release management, and automation for an ecosystem of **20+ Go instrumentation libraries**.
- Designed and maintained scalable **CI/CD pipelines** using GitHub Actions and Tekton.
- Represented IBM through active contributions to **CNCF OpenTelemetry**, collaborating on Go instrumentation standards and observability best practices.

Cambium Networks – Senior Engineer

Aug 2022 – Sep 2023

Cochin, Kerala, India

- Developed backend services for a customer support portal using **Go (Golang)** and **PostgreSQL**.
- Designed and implemented backend components with a strong focus on performance, scalability, and clean architecture.

NCR Corporation – Software Engineer II

Jun 2021 – Aug 2022

Hyderabad, Telangana, India

- Developed backend systems in **Go (Golang)** for Next Generation Self Checkout (SCO) platforms.
- Built MQTT-based services to manage cash-handling device operations.
- Developed backend components to retrieve, process, and monitor device error and telemetry data.

QBurst Technologies – Senior Engineer

Aug 2015 – Jun 2021

Thrissur, Kerala, India

- Built and maintained backend systems for a large Japanese e-commerce platform using **Node.js** and **Go (Golang)**.
- Led a team of four engineers to develop a messaging platform integrated with the **LINE API**.
- Designed and developed backend services using **MySQL** and **PostgreSQL**.
- Migrated a large-scale production database from **DynamoDB** to **PostgreSQL**.
- Deployed and managed applications on **AWS EC2**, working with S3, RDS, Lambda, DynamoDB, and Elasticsearch.
- Acted as team lead and bridge engineer at the client location in Japan.

Technical Skills

Programming Languages: Go (Golang), Node.js, Python

Databases: PostgreSQL, MySQL, Redis, DynamoDB

Cloud & DevOps: AWS, Docker, Podman, GitHub Actions, Tekton, Kubernetes, Jenkins

Observability: Distributed Tracing, OpenTelemetry, Instrumentation, Metrics, Logging, Telemetry

Operating Systems: Linux

Tools: Git, Vim, VS Code, Postman, Jira

Methodologies: Agile, Scrum

Currently Learning: eBPF, Rust, Zig

Certifications & Professional Badges

- **IBM Certified Developer – Professional Level 2 (Experienced)**
[Credly Badge Link](#)
- **IBM Open Source Contributor**
[Credly Badge Link](#)
- **IBM Open Source Committer**
[Credly Badge Link](#)

Education

B.Tech in Information Technology Government Engineering College, Sreekrishnapuram Calicut University — CGPA: 7.25	2011 – 2015
Higher Secondary (Computer Science) Government Higher Secondary School, Cherpalchery — 87.33%	2011
SSLC Government High School, Koppam — 86%	2009

Academic Project

Automatic Author Recognition Using Machine Learning Techniques

- Built an authorship recognition system using NLP and Machine Learning techniques.
- Implemented plagiarism detection and authorship prediction for anonymous documents.

Languages

English (Fluent) — Malayalam (Fluent)

Personal Interests

Coding, Writing, Reading, Solving Rubik's Cube, Watching movies