

Shashi Ranjan

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SUMMARY

A results-driven software professional with over 10 years of experience in backend architecture, microservices, and cloud-native development. Proven ability to lead engineering teams and deliver scalable, high-performance applications across EdTech, FinTech, Insurance, CRM, and E-commerce domains. Adept in building fault-tolerant systems using GoLang and AWS (Lambda, DynamoDB, CloudFormation), optimizing performance, and applying Go concurrency patterns (goroutines, channels) for robust parallel processing. Experienced in automated testing, performance tuning, and CI/CD implementation. Known for translating business requirements into technical solutions and delivering impact through innovation and team collaboration.

EXPERIENCE

Senior Software Engineer

Virtusa

07/2022 - Present, Gurugram

- Led backend design and development for AWS Lambda-based microservices handling medical data pipelines.
- Reduced processing time by 50% through parallel parsing and MongoDB-based data structuring.
- Set up CI/CD pipelines using Git and AWS CodePipeline for automated deployments.
- Mentored junior engineers and conducted technical reviews to ensure code quality.

Senior Software Engineer

Byju's (Aakash Edutech)

07/2020 - 07/2022, Gurugram

- Designed scalable REST APIs in GoLang to support high-traffic mobile applications.
- Integrated video DRM solutions using JWP player, ensuring secure content delivery.
- Spearheaded backend performance enhancements, improving API throughput by 40%.
- Collaborated closely with product managers and QA to align development with business goals.

Team Lead / Full Stack Developer

Kelvin International

08/2017 - 11/2019, Delhi

- Led a cross-functional team of 6 in building a CRM and LMS solution for coaching institutes.
- Delivered system design, architecture, and full-stack implementation using GoLang and Angular.
- Engaged with stakeholders to understand workflows and define technical roadmaps.
- Developed backend services using PHP (Laravel, CodeIgniter) and MySQL for CRM modules.

Software Engineer

Biz2Credit (via Prolitus Tech)

07/2015 - 04/2017, Noida

- Developed and maintained core modules for loan origination portal.
 - Integrated third-party APIs (Salesforce, Twilio, FedService) and streamlined data flows.
 - Worked on legacy modules built with PHP and migrated key components to GoLang services.
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PROJECT

Error File Reporting

- Designed microservice to parse error logs and store structured data in MongoDB.
- Enabled event-based Lambda triggers, reducing manual intervention and improving system auditability.

Data Curation & Transformation

- Migrated structured data from PostgreSQL to DynamoDB using GoLang-based ETL services.
- Ensured data consistency and optimized batch processing jobs.

Broadcast & Quiz Engine

- Developed GoLang microservices integrated with Kafka for real-time data sync and Redis-based pagination.
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EDUCATION

Master of Computer Applications (MCA)

IGNOU · Delhi · 2015

Bachelor of Computer Applications (BCA)

IGNOU · Delhi · 2013

AWARDS & HONORS

Recognized for backend performance optimization and high code reliability.

Promoted to team lead role for successful delivery of CRM solution across 20+ institutes.

Achieved 99.9% system uptime across AWS Lambda microservices in production.

SKILLS

Software Architecture & Design, Product Design & Development, System Design & Error Handling, Front-end & Back-end Development

Go Testing (unit, integration), Go Concurrency (goroutines, channels), CI/CD Pipelines (GitHub Actions, CodePipeline), Agile practices

Performance Optimization & Resource Usage, REST API & Microservices, AWS (Lambda, CloudFormation, DynamoDB), Docker, Kubernetes (basic deployment)

Kafka, Redis, RabbitMQ, PostgreSQL, MongoDB, MySQL, gRPC

GoLang, PHP, JavaScript, React

Gin, Echo, Laravel, CodeIgniter, AngularJS, CloudWatch (AWS), basic monitoring with logs

Docker, Git, JIRA, GitHub Actions, GraphQL

Testing: Go's testing pkg, Testify for unit/integration
