

# Yash Kale

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## Summary

Experienced Software Developer with over **four year's** in **Golang, AWS, and Kubernetes**. Demonstrates expertise in developing scalable applications and transitioning systems to Golang for enhanced performance. Proficient in cloud solutions and architecture, backed by AWS certifications, with skills in Kubernetes, Docker, and **Terraform**. Adept in **REST API** development, showcasing serverless architecture experience. Known for innovative problem-solving and collaborative team success, significantly contributing to high-profile projects at SRS Consulting Inc. and Relanto Global Pvt Ltd, emphasizing serverless solutions and advanced software architecture.

**Personal Website :-** <https://imyashkale.com>

## Skills

- Golang
- AWS cloud architecture design and implementation.
- Kubernetes
- Docker
- Terraform
- Serverless Architecture
- Microservices
- REST API
- MYSQL
- MongoDB
- DynamoDB
- Python

## Certifications

- Certified Kubernetes Application Developer: CKAD - December 2023
- HashiCorp Certified Terraform Associate 003 - October 2023
- AWS Certified Developer - Associate - September 2023
- AWS Certified Solutions Architect – Associate - July 2023
- AWS Certified Cloud Practitioner - December 2022

## Experience

**SOFTWARE DEVELOPER** | 08/2023 - Current

**Relanto Global Pvt Ltd - Bengaluru, India**

*Transferred to Relanto Global Pvt Ltd. from SRS Business Solutions Pvt Ltd. on August 1, 2023, seamlessly, as part of organizational restructuring focused on innovation and business value-driven solutions.*

At Relanto, a service-based company, I am deployed as a client-facing developer at Cisco. From the Cisco location, I am actively involved in two major projects: the development of the Badging-Service for the Cisco U Platform and the Cisco LearningSpace project.

### **Observability Enhancement in Microservices for Cisco U Platform:**

- Implemented observability enhancements across multiple Golang-based microservices using OpenTelemetry, significantly improving monitoring and debugging capabilities for the Cisco U Platform.

### **Development of Badging-Service for Cisco U Platform:**

- Developed the Badging-Service, a specialized microservice for issuing Credly badges, activated by Kafka topic events, as part of the Cisco U Platform.

- Responsible for the complete architecture and design of the service, ensuring smooth integration and communication with other microservices within the Kubernetes cluster.
- Focused on efficient service deployment and operation, with an emphasis on interaction with microservices.
- Migrated parts of the service that were initially written in C# to Golang, involving a comprehensive understanding of the existing codebase and requirements to ensure seamless functionality and integration.
- Implemented a custom REST API client to interact with Credly APIs, handling badge issuance processes. This involved crafting requests and managing responses to ensure accurate badge allocation to users, seamlessly integrating with the existing service architecture.
- Developed detailed unit tests in Golang for the Badging-Service, ensuring code reliability and functionality within the service architecture.

**SOFTWARE DEVELOPER** | 10/2022 - 07/2023

**SRS Business Solutions (India) Pvt. Ltd. - Bengaluru, India**

At SRS Consulting Inc., I work on three main projects with Cisco: Cisco LearningSpace, Cisco E Service Training, and Cisco U. My role focuses on using Golang and AWS to create advanced software, helping to improve each project with new and effective technology.

**1. Migrated Learningspace Application: Cisco LearningSpace**

- Solely responsible for transitioning the Learningspace application from Java to Golang.
- Achieved a significant boost in system performance and efficiency through the migration.
- Independently conducted a thorough analysis of project requirements.
- Implemented an AWS Lambda function to automatically process EPUB files uploaded to S3, triggering real-time point generation. This enhancement streamlined file handling and improved application responsiveness.

**2. REST API Development for Cisco U Platform: Cisco U**

- Developed APIs for the Permission and Profile service, catering exclusively to the Cisco U Platform, including both front-end and service-to-service communication.
- Conducted comprehensive planning and testing of these APIs to ensure optimal functionality and integration within the Cisco U ecosystem.
- Implemented extensive table test cases using the Testify and Mocks packages, enhancing the reliability and performance of the APIs.
- Focused on creating efficient testing frameworks to validate API functionality, contributing to the overall quality of the Cisco U services.

**3. Cisco E Service Training**

**Architected Serverless Transformation of EST Project:**

- Successfully migrated the EST Project from a Java-based application with Liferay to a serverless architecture, addressing performance and security concerns.
- Architected a serverless solution, leveraging API Gateway and Lambda with Golang for efficient operations.
- Implemented AWS Cognito for robust user authentication, integrating OKTA with the identity pool to enhance security and user management. Utilized Cognito for granting access to API Gateway.
- Directly integrated API Gateway with DynamoDB, optimizing resource utilization and reducing costs significantly.
- Implemented AWS CloudFront to speed up content delivery, enhancing user experience.
- Adopted AWS S3 for reliable and scalable static content storage, improving performance and data handling.
- Implemented signed cookies with CloudFront for secure, authenticated access to content, adding an extra security layer and personalized content delivery.

**Data Migration and Security:**

- Designed custom data migration scripts executed on Lambda to transfer data from RDS to DynamoDB, ensuring a seamless transition.
- Implemented AWS Secret Manager for secure secrets management, enhancing data protection.
- Migrated data from AWS EFS to S3 using DataSync service, ensuring data accessibility and efficient storage solutions.

**Custom Authorizer - AWS API Gateway:**

- Developed a custom AWS Lambda authorizer in Golang, ensuring efficient and scalable authorization management.
- This Lambda function integrates with AWS Cognito, determining API access permissions based on user group membership within Cognito.

#### **Pre Authentication Trigger Lambda - AWS Cognito:**

- Wrote a pre-authentication Lambda function in Golang, designed to check if the user's email domain is listed in DynamoDB, thereby controlling access.
- This function fetches records from DynamoDB to determine if a user is permitted, effectively restricting login to specific vendors.
- Optimized for performance, this Lambda function processes requests in just 2 milliseconds.

#### **Signed Cookie Generator - AWS API Gateway:**

- Developed in Golang for AWS API Gateway integration, this Lambda function efficiently generates secure, signed cookies upon API requests, facilitating controlled access to content via CloudFront.

#### **CI/CD Optimization:**

- Transitioned Jenkins to AWS Native CI/CD tools, reducing operational costs and streamlining the development pipeline.

#### **Cost Reduction and Efficiency:**

- Achieved a remarkable cost reduction of 90%, reducing expenses from \$1000 to \$100, by implementing serverless architecture.
- Played a key role in configuring and designing services to enhance efficiency and reduce operational overhead.

### **FULL STACK DEVELOPER | 08/2019 - 09/2022**

#### **SimSol Technologies And Services Private Limited - Mumbai, India**

At SimSol Technologies, focused on advancing Indian banking through technology, I specialized in developing sophisticated web applications using Golang and VueJS. My work, notably in improving processing efficiency and developing key microservices, aligned with the company's mission for robust, scalable banking solutions.

#### **Web Application Development:**

- Expertise in crafting sophisticated web applications using Golang and VueJS.
- Focus on robustness, scalability, and user experience.
- Reduced processing time from 4 hours to 10 seconds using multiprocessing.
- Developed MIS Report Microservice for creating business reports.
- Developed and deployed PAN Validation Microservice.
- Technologies: Go, Python, RabbitMQ, Docker.
- Proficient in AWS and Kubernetes for scalable, resilient cloud solutions.

#### **RESTful API Design:**

- Specialized in designing and implementing RESTful APIs for seamless frontend and backend integration.
- Emphasis on performance and reliability.

#### **Co-Lending Application Project:**

- Led the development of a high-performance Co-Lending application.
- Frontend: VueJS
- Backend: Go REST API
- Database: MongoDB & Oracle Database.
- Improved loan processing efficiency.

#### **Team Development and Training:**

- Mentored team members in latest technologies and methodologies.
- Ensured team's capability to meet project requirements effectively.

#### **Stakeholder Management:**

- Coordinated with multiple stakeholders, including bank officials.
- Ensured timely delivery of complex projects.

#### **Code Quality Assurance:**

- Ensured high standards in code quality through rigorous code reviews.

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## **Education and Training**

#### **Everest Education Society Group of Institutions - Aurangabad, India | Bachelor of Science**

Computer Science Engineering, 08/2017

## Conferences Attended

**DevOpsDays Bengaluru 2023 (October 20-21, 2023):**

- Engaged in keynotes and workshops focused on DevOps practices and networking with industry experts.

**KubeDay India 2023 (December 8, 2023):**

- Participated in the dynamic KubeDay conference in Bengaluru. This event, organized by the Cloud Native Computing Foundation, was a prime occasion for engaging with the vibrant Kubernetes and cloud-native community.

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## Websites, Portfolios, Profiles

- LinkedIn :- <https://www.linkedin.com/in/imyashkale/>
- GitHub :- <https://github.com/imyashkale>
- Portfolio :- <https://imyashkale.com>
- Credly :- <https://www.credly.com/users/imyashkale/badges>

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## Languages

**Marathi:** First Language

**Hindi:**  B2  
Upper Intermediate (B2)

**English:**  B2  
Upper Intermediate (B2)