

Pravand Katyare

Senior Software Engineer

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Summary

Dynamic Software Engineer with extensive experience of over 7 years in development, solution providing, problem resolution, and implementation of software applications using Golang and AWS, with a proven track record of achieving success by meeting the technical challenges of the company's business goals. Adept at fostering collaboration and mentoring peers, driving successful project outcomes in Agile environments, and consistently enhancing application efficiency and user satisfaction. Passionate about creating scalable applications, and enhancing system interoperability.

Skills

- Golang
- Java(Intermediate)
- Gorilla Mux
- Spring Boot
- AWS
- Git
- CI/CD
- Terraform
- AWS Serverless
- Serverless Computing
- MySQL
- DynamoDB
- SDLC
- Agile
- Scrum
- Kanban
- Restful Web-Service
- Microservices
- CQRS (Event Driven)
- GraphQL
- Unit Testing

Experience

Senior Software Engineer, Siemens

Feb 2022 - Present

- Been part of architectural discussions and designed the complete low-level design of the system to develop scalable and robust software solutions using Go from scratch.
- Integrated application with a third-party client API handling the authentication.
- Actively collaborated with clients and product managers of multiple modules to understand the requirements and integrations of services.
- Enhanced functionality of Edge services to generate Podman compliance artifacts in runtime for the installation of applications on IoT devices, as well as supporting older Docker-compliant artifact generation.
- Optimized applications to export data required by other services.
- Researched and optimized the testing framework to reduce overall costs.
- Successfully deployed multiple product verticals in multiple regions of the AWS cloud using Terraform and the Serverless Framework. Involved in building an application that would ingest and adapt raw data from IoT devices from MQTT servers of third-party clients, and integrate with other services for further processing of data, with the capability of onboarding multiple clients without affecting the existing clients.

Software Engineer, Clairvoyant

Jul 2020 - Feb 2022

- Worked on implementing multiple requirements in microservice architecture, handling authentication, authorization of users, and inter-service communications.
- Showcased and implemented a low-level design, considering best practices to optimize the application for thousands of users.
- Worked on the enhancement of the database, implementing normalization of multiple database tables.
- Optimized existing code to enhance performance by up to 25%, adapting it to a design pattern.
- Involved in maintaining the CI/CD pipelines for the smooth deployment of applications.
- Collaborated with cross-functional teams to ensure seamless integration of software components.
- Helped with the onboarding of new team members for the project.

Associate Software Engineer, Clairvoyant

Jan 2018 - June 2020

- Involved in the design discussion, maintenance, and development of new requirements in existing applications.
- Worked on integrating applications with other services and messaging queues.
- Worked on debugging, code fixing, and strengthening of unit test cases.

Projects

SherpaX

May 2024 - Present

R&D product to drive Siemens' digital business transformation by aligning end-to-end processes, connecting several tools used in smart building solution engineering, and service delivery lifecycle.

- Worked on the data layer to process and standardize the data to be used by other applications.
- Building the standardized interface to accept data, store, enrich, and normalize its metadata.
- Design, develop, and implement software to support business requirements.

BuildingX

Jan 2023 - April 2024

A whole platform consisting of multiple product verticals helps customers and users maintain and monitor infrastructure, making it smart by providing enough data to optimize energy consumption and security.

- Worked over multiple product verticals, from development to deployment, engaging with their product owners and managers. Actively developed features of the Inventory service to adapt raw IoT data and process it based on a set of rules that would be meaningful to the client, reducing unwanted data load into the database.
- Researched to optimize the contract test framework to reduce costs by up to 80-90%, removing the dependency on the cloud across the product line.
- Worked on exporting huge raw IoT data, aligning it efficiently to consume optimum storage space, compressing it into a file, and uploading it to a specific client location for data analysis and machine learning.
- Took ownership of adapting code for the deployment of multiple product verticals into different regions of AWS by streamlining the process, dependencies, and reducing the time required for deployment from a month to a couple of days, also providing a report highlighting flaws and causes of the time taken for deployments by various verticals.
- Involved in building an application to ingest IoT data from multiple third-party clients and integrate it with other services for further processing, with the capability of onboarding multiple clients without affecting the existing clients.
- Mentoring juniors for onboarding to the project and guiding them into fast-paced development.

Generic Ingest Service

March 2022 - Dec 2022

Back-end application made to fetch data in a timely manner from the source based on configuration and properties.

- Lead the project with team members to build the service from scratch.
- Actively participated in designing the low-level design of the system to develop scalable, robust software.
- Developed key features that align with stakeholder-approved specifications.
- Wrote efficient, scalable code from scratch to optimize system performance, implementing design patterns, DRY, and clean code principles.

Learning Management System

Nov 2020 – Feb 2022

The portal manages training programs for university students enrolled in certification or degree courses, and the system allows instructors to create an online class, add assignments and assessments, communicate with students, and track the progress of students.

- Worked on implementing multiple requirements in microservice architecture, handling authentication and authorization of users, and inter-service communications, which also included writing unit tests and integration tests.
- Showcased and implemented a low-level design, considering the best practices and clean code, to optimize the application and enhance performance for thousands of users by 25%.
- Worked on the enhancement of the database, implementing the normalization of multiple database tables.
- Involved in maintaining the CI/CD pipelines to ensure the smooth deployment of applications.
- Helped with the onboarding of new team members for the project.

Employees and Individual Portal

Feb 2018 - Oct 2020

It is an ERP system used for managing the orders and order-related information that are placed for printing books and catalogues by customers, and it automates the process of decision-making to print the orders in-house or hand over to vendors.

- Involved in the design discussion, maintenance, and development of new requirements in existing applications.
- Worked on integrating applications with other services, and messaging queue.
- Worked on debugging, code fixing, and further strengthening of unit test cases.

Accomplishments

- Special Star Award for exceptional performance at Siemens Oct 2022 - Sep 2023

Education

- **Pune University, Pune, India** 2018
 - Master of Computer Application (MCA)
- **Veer Narmad South Gujarat University, Surat, India** 2014
 - Bachelor of Computer Application (BCA)