

Prabhat Kumar Singh
Golang Developer
E: prabhatkumar.singh@ust.com

Overall Summary:

- Over 9 years' experience in owning and driving Web, Cloud, Mobile Application & Services, Process Automation, Digital Transformation, and Cloud Platform
- 4.5 Years of experience in Golang Development with expertise in Concurrency, object-oriented technologies, client-server systems, design pattern, web-based applications and business applications.
- Over 7 years of customer facing experience (Walmart, P&G, IRS) in designing, building, and implementing Enterprise Class Solutions and Security Solutions with technology and architecture team

Professional Summary

- Skilled IT Professional with strong experience in design, development and maintenance of distributed web-based applications and client/server applications using **Golang, .Net, Python, Java** and Web Technologies.
- Experience in design, development, implementation, deployment, testing, and maintenance using Software Development Life Cycle (SDLC) methodologies like **Agile SCRUM**, and **waterfall**.
- Proficient in development of **EDI application**, including Project Strategy, Functionality, Information Architecture, Navigation Systems.
- Experience in **Golang 1.21** with a strong understanding and working knowledge of **Devops, Concurrency, Object-Oriented Concepts, Composition, Threading, Error Handling, design patterns**.
- Extensive knowledge and hands-on experience in Web development using **HTML5, DHTML, AJAX, CSS, JavaScript, jQuery, AngularJS, Bootstrap, Angular, and Angular Material**.
- Built user interface by using **React, Redux** to develop Single Page Application (SPAs) and worked with **React components, Forms, Events, Keys, Router, Animations, and Flux concept**.
- Developed Single Page Applications (SPA) using **Node.js, Vue.js, React.js MVC framework** for unique and customized front end application development with seamless integration and workflow.
- Experience in implementing **RESTful** web services using **JAX-RS** specification.
- Experience with integration services OAUTH, OAUTH2, SAML and SAML 2.0 POST
- Extensive knowledge of **Design patterns like Singleton, Factory method, Strategy, Observer, Builder, Fan-Out Fan-In**.
- Experience in using **Gin & Mux for REST APIs for micro-services**.
- Designed and Developed **GraphQL API** and involved in testing endpoints using **POSTMAN, Swagger, and SOAPUI**.
- Proficient in using **Object Oriented Programming Analysis and Design (OOAD) principles, UML and Rational Rose, Object Oriented Design Patterns** in building high performance applications.
- Designed and Developed **REST API's** and involved in testing endpoints using **POSTMAN, Swagger, and SOAPUI**.
- Extensive experience in working with different databases such as **Oracle, SQL Server, Elastic Search, MySQL, NoSQL Databases like Mongo DB**.
- Advanced expertise in writing complex **SQL, PL/SQL** queries and subqueries like stored procedures, joins, functions, triggers, views, and exception handling for retrieving, manipulating, checking, and migrating complex data sets.
- Experience in designing error and exception handling procedures to identify, record and report errors.
- Maintained and updated a GraphQL layer to allow retrieval and updates of user interactions with PostgreSQL database
- Good experience with **Apache Kafka, RabbitMQ** for real-time data streaming and message handling.
- Used detailed **wireframes** and developed Mock-up designs as per the requirements of Business.
- Used **Docker** container for eliminating a source of friction between development and operations.
- Used **Node.JS, React.JS MVC framework** for developing the Single Page Application (SPA).
- Experience in using various Amazon Web Services (AWS) Components like **EC2 for virtual servers, S3 and Glacier for storing objects, Lambda Functions, Cognito, Cloud Front, Elastic cache, and Dynamo DB** for storing data.
- Proficient with container systems like Docker and container orchestration like, **Kubernetes**.
- Managed **Docker orchestration** and **Docker containerization** using **Kubernetes**.
- Used **Kubernetes** to orchestrate the deployment, scaling and management of **Docker Containers**.

TECHNICAL SKILLS:

Web Technologies	HTML, HTML5, XML, CSS, JavaScript, TypeScript, jQuery, AJAX, JSON, XML
Technologies	Go/Golang, .Net mvc, Python, Java
Script	React, Redux, jQuery, Require.js, Viu.js
Cloud Technologies	GCP, AWS, Azure, WCNP
Database	Oracle, MySQL, PostgreSQL, MongoDB, Redis, Elastic Search
Web Services	RESTful, GraphQL, GRPC, SOAP, WSDL, UDDI
Testing frameworks	Testify, HTTPexpect,
Operating Systems	Windows, UNIX, LINUX, Mac OS.
Web Servers	WebSphere, WebLogic, JBoss, Tomcat, Nginx
Repositories	Git, Bitbucket, SVN, CVS
Vulnerability fix	Sonar

Work Experience

Lead Golang Developer
Walmart (UST Global)

Aug 2023 to till date.

Walmart (PRE - Health Services & PRE – Incident Services)

Description: Health services is determining the current running status of Walmart services which is deployed on Cloud like: **WCNP, AZURE, GCP**

Roles and Responsibilities:

- Involved in the analysis of business problems to define application requirements and participated in design reviews.
- Developed Programming practices like Test Driven Development (TDD) and Continuous Integration.
- Extensive use of **Golang** components like, Concurrency, Fan-In Fan-Out, Micro Services.
- Followed AGILE-SCRUM Methodology and used tools like Jira to create User Stories.
- Developed **Microservices** using **Gin and Kafka** with dependency injection, Inversion of Control, transaction along with the test cases and httpexpect for unit testing with mock creation and verification.
- Secured rest services using Spring Security **OAUTH2** (Authentication and Authorization) using JWT tokens.
- Responsible for implementing monitoring solutions in **Docker, and Kubernetes**.
- Designed and Developed Custom Connector Software to fetch data from third-party security applications using **RESTful** webservices, storing in **Kafka** Message Queues and performing analytics for streaming data.
- Responsible for implementing producers, consumers, and configuring brokers.
- Implemented cluster services using Kubernetes and Docker to manage local deployments in Kubernetes by building a self - hosted Kubernetes cluster using Terraform and Ansible and deploying application containers.
- Deployment end to end.
- Maintained and updated a GraphQL layer to allow retrieval and updates of user interactions with Elastic search.
- Maintained and updated unit and integration tests for Services and Module.
- Followed Agile framework and attended daily standup with the updates on the task completed and planned.

- Used Jira for assignments and sync it to bitbucket to track the progress of the work. Work closely with the release team to validate the requirement met per Use Case. Assist in working with stakeholders to give a heads up before proceeding for the final signoff.

ENVIRONMENT: Go/Golang, Gin, Apache Kafka, GraphQL, Microservices, Elastic Search, Kitt, WCNP, Docker, Kubernetes, Grafana, Prometheus, Splunk, Git, Jenkins

Walmart (PRE – Incident Services)
Senior Golang Engineer

Aug 2023 to till date.

(PRE – Incident Services)

Description: Incident services is used create an in incident on Walmart store and Walmart service.

Roles and Responsibilities:

- Involved in the analysis of business problems to define application requirements and participated in design reviews.
- Developed Programming practices like Test Driven Development (TDD) and Continuous Integration.
- Extensive use of **Golang** components like, Concurrency , Fan-In Fan-Out, Micro Services.
- Followed AGILE-SCRUM Methodology and used tools like Jira to create User Stories.
- Developed **Microservices** using **Gin and Kafka** with dependency injection, Inversion of Control, transaction along with the test cases and httptest for unit testing with mock creation and verification.
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ENVIRONMENT: Go/Golang, Gin, Apache Kafka, GraphQL, Microservices, Elastic Search, Kitt, WCNP, Docker, Kubernetes, Grafana, Prometheus, Splunk, Git, Jenkins

GovStrive (Kritikal Solutions)
Sr. Backend Developer

Nov 2019 to Aug 2023

Description: GovStrive, a Historically Underutilized Business Zone (HUBZone) certified small business, is an industry leader delivering best-in-class Human Resources (HR) and Civil Rights (CR) business and technology services to stabilize and innovate federal organizations. We are committed to making a strong impact locally, affording employment and professional development opportunities to veterans and members of our rural community where our headquarters is proudly located.

Roles and Responsibilities:

- Implemented **MVC** pattern using the **Golang and C#** frameworks.
- Developed business logic and validations using **.Net** and **Gin**.

- Requirements Analysis, studying/Understanding the current system and coming up with the use case documents.
- In the design phase came up with high level and low-level design documents.
- building **microservices** and develop Gin based application with very less configuration using **Golang**.
- Worked efficiently as part of a collaborative team in deadline driven environment under agile methodology.
- Participated in weekly meetings for status reports and involved in web operations.
- Implemented caching for **API** responses using **REDIS** and optimized code.
- Extensively used Stored Procedures, Functions and Triggers.
- Developed SQL Statements and performed SQL tuning and optimization.
- Extensively used Hibernate for Data Access and Data Persistence.
- Used httptest for testing Business Objects developed.
- Verified the functionality of the unit level codes with respect to system requirements.
- Involved in configuring and production support of the application by responding to the tangible needs.

Skills: Golang, .Net, Rest API, GitHub, GCP (Google Cloud), Azure, Apache Kafka, jQuery, React.js

P&G (RSVR Tech)

June 2017 to Nov 2019

Sr. Software Engineer

Description: The Procter & Gamble Company (P&G) is an American consumer goods company. It has image processing center, where multiple images is uploaded and processed for the further statics. Image store has capacity to store a very large amount of image for a single user experience. The image can be processed with multiple dimension and angle. Based on that after and before P&G product use the effect will be measured and next level perform.

Roles and Responsibilities:

- Involved in Requirement Gathering and Client implementation.
- Interacted with client on regular basis to understand the requirements of the application.
- Investigate and troubleshoot production issues
- Support our application platform in both production and the non-production environments.
- Taking thread and heap dumps during production issues analyzing them and identify the faulty piece of code
- Attended daily status call with client.
- Involved in Coding & Code review.
- Implemented automated build process using Jenkins.
- Involved in preparing Unit Test cases for Change Requests.
- Involved in Technical POC approach for P&G project.
- Involved in Download functionality with current progress percentage.

Environment: Python, Django, Statics, ML, PostgreSQL, Chatbot HTML, XML, CSS, Bootstrap, JavaScript, DOM, jQuery, Ajax, JSON, AngularJS

Byju's (Webtrackker)

Jan 2016 to June 2017

Backend Developer

Description: Tangibleplay operates as an educational gaming company based on reflective artificial intelligence. It helps build core skills in subjects such as math, science, physics, coding, and more. The company aims to create a play movement to unleash the boundaries of the screen, expand the playing field, and engage creative thinking and social interaction.

Roles and Responsibilities:

- Involved in Requirement Gathering and Client implementation.
- Interacted with client on regular basis to understand the requirements of the application.
- Involved in Coding & Code review. Involved in preparing Unit Test cases for Change Requests.
- Responsible for analysis, design, development, using GRPC with microservices architecture using Golang Framework such as Gin.
- Developed Data Access Layer to access and update information in the database.

- Designed the workflow, system architecture, drawing sequence diagrams, activity diagrams, class diagrams, database schema and tables.
- Involved in Tomcat server configuration for deployment. Used Httpexpect framework for Unit testing of application.
- Use Case, Class, Sequence diagrams and in complete development, testing and maintenance process of the application.
- Store persistent messages or temporarily store messages sent using the store-and-forward feature.

Environment: Golang, Gin, GCP (Google Cloud), GRPC, Git, Docker, Kubernetes, Httpexpect, Storage, JWT, Transaction based DB, MySQL, Google Data Storage

Education:

B.tech in Computer Science, 2015	GNDEC, Ludhiana, Punjab
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