

Sowmya Vejerla

Senior software developer

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Results-driven software developer with over 11+ years of experience in designing, developing, and deploying scalable backend systems using Golang, Python, PHP, and modern frameworks. Proven ability to lead complex projects, integrate third-party APIs, optimize performance, and build microservices-based architectures.

Technical Skills

Languages: Golang, Python, PHP, JavaScript
Backend Frameworks: Go Fiber, Gorilla MUX, GIN, Flask, Django, Laravel, NodeJS
Databases: PostgreSQL, MySQL, MongoDB, DynamoDB
Backend Development: Microservices Architecture, RESTful APIs, Middleware Development, API Integration, Authentication & Authorization, OAuth2, RBAC, Concurrent Programming, Goroutines, Channels.
Cloud and devops: Docker, Kubernetes (Basic), AWS (Lambda, API Gateway, S3, DynamoDB, CloudWatch)
Third-Party Integrations: Google OAuth, Stripe, PayPal, Amazon SES, Mandrill, Twilio, RingCentral
Operating Systems & Scripting: Linux Environment, Python Shell Scripting, Bash Scripting
Tools and Monitoring: Git, Swagger/OpenAPI, Apigee, Grafana
Web Scraping & Automation: Selenium, BeautifulSoup
Development Practices: Unit Testing, Integration Testing, Code Reviews, Debugging, Performance Optimization, Agile/Scrum, CI/CD

Experience

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Project: Digital Pathology

Company: Amnet Digital

Client: Iron Mountain

Role: Backend Developer

Responsibilities:

- Designed and developed scalable RESTful APIs and microservices using Golang (Go Fiber) following modular and domain-driven architecture principles.
- Built and maintained independent microservices for user management, authentication, customer management, order management, and SKU management.
- Developed custom middleware components for request logging, authentication, authorization, error handling, and performance monitoring.
- Leveraged GORM with PostgreSQL for database interactions, including schema design, migrations, query optimization, and data integrity management.
- Implemented OAuth2-based authentication and role-based access control (RBAC) to ensure secure user access and token validation.
- Developed comprehensive unit and integration test suites to improve code quality, reliability, and maintainability of microservices.
- Designed and implemented workflow automation services in Node.js for a Digital Experience Platform (DXP), enabling efficient processing of digital pathology data.
- Engineered advanced workflows for metadata extraction from Whole Slide Images (WSI), including OMETIFF, TIFF, and DICOM formats.
- Developed slide-to-accession mapping workflows to ensure accurate sample identification and traceability within pathology systems.
- Implemented de-identification pipelines to anonymize sensitive patient information, supporting HIPAA-compliant data processing for research and educational use cases.
- Designed and optimized image ingestion and Deep Zoom Image (DZI) generation workflows to support efficient storage, retrieval, and visualization of large pathology images.
- Developed and containerized Python-based automation scripts using Docker to streamline data update operations and improve deployment consistency across environments.
- Collaborated with cross-functional teams to deliver scalable, secure, and high-performance healthcare and digital pathology solutions.

2023

Project: Esim

2023

Company: Bluehouse Technologies

Role: Golang Backend Developer

Responsibilities:

- Developed new RESTful API services that work as a middleware between our application and third-party APIs that we will use in Golang.
- Implemented admin portal and affiliate portals.
- Integrated third-party services including payment gateways like Stripe, PayPal, Google Pay and Apple Pay, Email for Amazon SES and OAuth providers.
- Implemented WhatsApp notifications with Facebook graph API.
- Implemented Go-Cache for storage.
- Developed database-driven applications using PostgreSQL/MySQL.
- Swagger implementation for APIs.
- Optimized application performance and resolved production issues.
- Collaborate with cross-functional teams to design and implement software solutions.
- Participated in code reviews, testing, debugging, and deployment activities.
- Worked with containerized deployments and Linux-based environments.

Project: Superbet

2023

Company: Bluehouse Technologies

Role: Golang Backend Developer

Responsibilities:

- Designed and developed RESTful APIs and backend services.
- Implemented API integrations.
- Developed web modules and middleware components using AWS.
- Developed database-driven applications using Cockroach Database & SQLboiler.
- AWS DynamoDB integration (NO SQL).
- Experience with Apache Kafka and its ecosystem (e.g., Kafka Streams, Kafka Connect)
- Optimize application performance and troubleshoot production issues. Code Refactoring.

Project: ERMA

2023

Company: Bluehouse Technologies

Role: Golang Backend Developer

Responsibilities:

- Developed new RESTful API services using Gorilla MUX with middleware and session management.
- Implemented Go Cache for local storage.
- Implemented Database Operations using GORM & Postgres.
- Used Go Modules to manage dependencies.
- Experience with Apache Kafka and its ecosystem (e.g., Kafka Streams, Kafka Connect)
- Implemented component permission to lay a bet worker (PTL-W)
- Implemented UI-backend for fieldbook worker (FB-W) and aggregation worker components.
- Implemented alerts and Notification worker component(ALW-N).

Project: Allcare - (Health Care)

2019-2022

Company: EZEES Pvt. Ltd.

Role: Backend Developer (PHP, Python and Golang)

Responsibilities:

- Designed and developed responsive web portals and landing pages using Laravel and modern web technologies.
- Integrated third-party laboratory systems, including Clinical Pathology Labs and Labcorp, enabling seamless exchange of patient and diagnostic data.
- Implemented Google Drive API integrations for secure document synchronization, storage, and retrieval.
- Developed and maintained role-based access control (RBAC) and dynamic menu configuration for different user groups.

- Designed and developed RESTful APIs for mobile and web applications using Python, ensuring secure and scalable communication between services.
- Integrated RingCentral APIs for SMS, voice calls, fax services, call logging, and communication workflows.
- Automated patient appointment reminder systems using Python-based scheduling and notification services.
- Developed data extraction and processing utilities for email-based workflows and business automation.
- Integrated third-party communication services including Twilio and Mandrill for SMS, email notifications, and transactional messaging.
- Designed, optimized, and maintained MySQL database schemas, queries, stored procedures, and data management processes.
- Collaborated with cross-functional teams to design scalable backend solutions, troubleshoot production issues, and improve application performance.
- Established coding standards, code review processes, and development best practices, improving code quality and maintainability across projects.
- Participated in requirement analysis, system design, testing, deployment, and production support activities throughout the software development lifecycle.

Project: Markethubs

2018-2019

Company: EZEES Pvt. Ltd.

Role: PHP and Python Developer

Responsibilities:

- Designed and developed scalable RESTful APIs using Python and Flask for campaign creation, management, and execution workflows.
- Built integrations with social media platforms including Facebook, LinkedIn, and Twitter to enable automated campaign publishing and engagement tracking.
- Developed API-driven solutions for email and SMS campaign distribution using Mandrill and Twilio services.
- Implemented web analytics and user behavior tracking using Piwik (Matomo) to provide actionable business insights.
- Developed dynamic and reusable form engines using Django Forms to support configurable campaign workflows.
- Integrated third-party APIs and social media services to streamline content distribution and marketing automation.
- Designed, documented, and maintained APIs using Swagger/OpenAPI and managed API lifecycle through Apigee.
- Collaborated with frontend teams and developed administrative interfaces using AngularJS for campaign management and reporting.
- Optimized application performance, enhanced code quality, and participated in testing, debugging, and deployment activities.

Project: eHealthplus

2017-2018

Company: Innovate Apps

Role: Python Developer

Responsibilities:

- Designed and developed user-friendly web interfaces for hospital and patient management systems using Python templating frameworks.
- Built dynamic dashboards and data visualization components for efficient representation of patient, doctor, and hospital information.
- Developed and maintained backend services and business logic for healthcare management applications.
- Designed, implemented, and optimized MySQL database schemas, queries, and data access layers.
- Developed RESTful APIs for retrieving, managing, and updating patient and doctor information.
- Implemented secure authentication and authorization mechanisms, including dedicated login portals for doctors and patients using Django.
- Collaborated with stakeholders to gather requirements and deliver scalable, high-performance healthcare solutions.
- Performed application testing, debugging, and performance optimization to ensure system reliability and user satisfaction.

Project: School bus tracking system

2016-2017

Company: Innovate Apps

Role: PHP and Python Developer

Responsibilities:

- Developed and maintained web applications using the Zend Framework, enabling real-time tracking and display of school transportation and student information.
- Designed and implemented responsive user interfaces for both web and Android applications, ensuring a consistent and user-friendly experience.
- Built interactive frontend components using JavaScript, jQuery, AJAX, HTML, and CSS to enhance application usability and performance.
- Integrated Google Maps APIs to provide real-time location tracking and visualization of school buses within the web platform.
- Implemented NFC tag integration and GPS-based location tracking features in Android applications to improve transportation monitoring and student safety.
- Developed and integrated backend APIs using Python to support data exchange between mobile applications, web portals, and external services.
- Collaborated with cross-functional teams throughout the software development lifecycle, including requirement analysis, development, testing, and deployment.
- Optimized application performance and resolved production issues to ensure high system reliability and user satisfaction.

Project: Fantasyisland

2016

Company: Innovate Apps

Role: PHP Developer

Responsibilities:

- Integrated third-party SOAP/WSDL services and generated XML payloads for seamless data exchange between enterprise applications.
- Developed data-mapping and XML parsing utilities to transform and process complex datasets efficiently.
- Created mock APIs and SOAP services in PHP to simulate external systems for development, testing, and demonstration purposes.
- Implemented data anonymization techniques by replacing production data with test data while maintaining application functionality.
- Integrated simulated APIs with existing applications, ensuring compatibility and uninterrupted workflow execution without UI modifications.

Project: Carnivore

2015-2016

Company: Innovate Apps

Role: PHP (Laravel) and Android Developer

Responsibilities:

- Developed website for all the data of the vehicle information posted and lender assignments to repossess the vehicles of the people.
- Extensive use of jQuery, HTML, CSS and Bootstrap for the easy UX.
- Handled all the backend CRUD operations eloquent ORMs

Project: Tragmatics

2015

Company: Innovate Apps

Role: PHP and UI development (Freelancer)

Responsibilities:

- Developed and maintained the company website, ensuring a responsive, user-friendly, and scalable web experience.
- Designed and implemented secure administrative portals for content management, user administration, and business operations.

Project: Smart Deal Guru
Company: Innovate Apps
Role: Python and Android developer
Responsibilities:

2015

- Developed user interfaces for Android and web applications with a focus on usability and responsiveness.
- Implemented application features and enhancements to improve user experience and functionality.
- Integrated Python-based REST APIs and web services for seamless application communication.
- Implemented payment gateway integrations and managed MySQL database operations.

Project: Webscraping
Company: Innovate Apps
Role: Python Developer
Responsibilities:

2014-2015

- Developed web scraping solutions using Selenium and BeautifulSoup to extract, process, and store data from multiple web sources into databases.

Internships

Project: Alertzero **Role:** PHP Laravel, JavaScript and jQuery developer **Responsibilities:**

- Designed Website and implemented backend operations to display different type of vulnerabilities from third-party APIs Admin Portal.

Project: Nyx wolves
Role: UI Developer
Responsibilities:

- Worked on UI with HTML,CSS, JavaScript,jQuery and Bootstrap.
- Worked on WordPress site with woo commerce plugin and woo commerce Rest APIs.

Education

High School MVGR College of
Engineering

2009

2014

- Bachelor of Technology, Electronics & Communication
- Percentage: 83

Skills

- Application Design
- Coding Time
- Management
- Problem-solving
- Quick Learning
- Eye for Detail