

Praveen Potnuri

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Innovative Full Stack Developer with a strong background in backend and cloud-based development, specializing in **Golang** and **Python**. Proven track record of designing and implementing robust, user-friendly applications, building scalable microservices, and automating critical workflows.

WORK EXPERIENCE



Full Stack Engineer

may 2022 - Present

Fournine Cloud Solutions | Hyderabad, India

- Developed an end-to-end in-house product, DbSAM (Database Secure Access Management), using Django and React, enabling secure and streamlined access to internal cloud-hosted databases. The system supports over 200 active users.
- Designed and implemented scalable backend systems with Django, leveraging Django REST Framework for robust API development, Celery for asynchronous task processing, and modular app architecture for maintainability.
- Built a user management web application for DbSAM using Django (with Django REST Framework and Django ORM) and React, delivering secure API endpoint routing, database interactions, and a dynamic, user-friendly frontend interface.
- Implemented role-based access control (RBAC) by designing custom middleware in Django, utilizing JWT (via `djangorestframework-simplejwt`) for authentication and extending role and permission management using Django's built-in permissions framework and custom decorators.
- Using Jenkins and GitHub Actions, automating testing, containerization, and deployment of DbSAM services. For instance, reduced manual intervention in deployments by 90%, ensuring faster feature releases.
- Migrated report monitoring systems from MySQL to BigQuery by developing cloud functions in Python, ensuring seamless data transformation and integration.
- Automated environment setup and deployment pipelines using Python scripts and Django management commands to ensure consistent and error-free deployments, cutting onboarding time for new developers by 30%.
- Implemented Prometheus and Grafana dashboards to monitor Kubernetes clusters and DbSAM's microservices. Optimized resource utilization by tuning pod configurations, reducing cloud costs by 20%.
- Migrated the production app from server to serverless using AWS Amplify and AWS Lambda.
- Developed GCP cloud functions to generate reports from BigQuery and GCP Buckets.



Python Developer

Aug 2021 - Apr 2022

[Kaar Technologies](#) | Chennai, India

- Built a high-performance API gateway in Golang to handle concurrent SAP system requests from the Python chatbot, utilizing goroutines and channels to process 500+ simultaneous API calls with sub-100ms response times.
- Automated asynchronous data transfer job tracking using Python with AWS AppFlow, employing error handling, logging frameworks, and event-driven programming, reducing issue resolution time to under 5 minutes.
- Developed a Golang-based message queue consumer to process SAP webhook events in real-time, handling data transformation and routing to appropriate Python services for business logic processing.
- Created Golang workers for batch processing SAP reports, enabling parallel data extraction and transformation that reduced report generation time from 2 hours to 15 minutes compared to Python-only implementation.
- Performed testing and debugging using advanced Python testing tools like pytest and unittest, ensuring high code quality and reliability across the hybrid Python-Golang architecture.
- Designed and developed a chatbot using Python, leveraging advanced concepts such as object-oriented programming (OOP), multi-threading, and asynchronous programming to integrate with SAP systems and cloud platforms seamlessly.
- Implemented RESTful APIs using Python libraries such as requests, json, and pandas for robust backend development, while developing Golang microservices for real-time data synchronization between SAP modules and external cloud services.

EDUCATION

Bachelor of Technology (B. Tech.)(Computer Science) (9.04 CGPA)
2021 Sathyabama Institute of Science and technology, Chennai (India)

July 2017 - May

SKILLS

Languages & Frameworks: Golang, Python, React, JavaScript, TypeScript, GIN, Django, Flask API, Gen AI

Development: RESTful API, gRPC, Error Handling, Go Modules, Goroutines, Testing

DevOps & Cloud: GCP, AWS(EC2, LAMBDA, APIGATEWAY, AMPLIFY, ECS/EKS), Docker, Kubernetes, CI/CD, GCP, Prometheus, Grafana

Databases: MySQL, PostgreSQL, DynamoDB and MongoDB

Other: Linux, Bash, Scripting, Automation, Logging and Monitoring

Certification: Professional GCP Cloud Architect Certification (Expires on May 02, 2026)