VISHNU PRASAD

Senior Backend and AI Engineer

Bangalore, Karnataka 560100 | +91 9880414861 | vishnuprasadapp@gmail.com | linkedin.com/in/vishapp | github.com/vishapp | vishnu-prasad.in

PROFESSIONAL SUMMARY

Senior Backend and AI Engineer with 9+ years building production-grade systems at scale. Expert in Python (FastAPI, Django, Flask), Go, AWS, Kubernetes, and Docker. Specializes in multi-agent AI systems (CrewAI, LangGraph, LangChain), retrieval-augmented generation pipelines, and LLM integration delivered at high uptime across enterprise environments. Operates as a hands-on individual contributor with technical leadership across distributed systems and microservices architectures.

TECHNICAL SKILLS

Languages: Python, Go, Rust, JavaScript, TypeScript
Python Frameworks & Libraries: FastAPI, Django, Flask, Celery, SQLAlchemy, Pydantic
AI and Automation: Multi-Agent Systems, RAG Pipelines, LLM Integration, Prompt Engineering, LLM Evaluation, CrewAI, LangGraph, LangChain, AutoGen, OpenAI Agents SDK
Cloud and Infrastructure: AWS, GCP, Azure, Docker, Kubernetes, Terraform, CI/CD, Jenkins, GitHub Actions
Backend Architecture: Microservices, REST APIs, GraphQL APIs, Event-Driven Architecture, Distributed Systems, TDD
Databases and Messaging: PostgreSQL, MongoDB, Redis, Kafka, RabbitMQ
Observability: Prometheus, Grafana, Distributed Tracing, Log Aggregation
Developer Tools: Claude Code, Git, Postman, Jira

NOTABLE ACHIEVEMENTS

- Shipped cross-functional backend projects serving 10+ enterprise customers at high uptime.
- Architected scalable microservices on AWS EKS achieving significant API throughput improvement across production environments.
- Created a multi-agent AI framework that eliminated a large portion of manual security investigations and cut false-positive triage time substantially.
- Reduced incident response time significantly through orchestrated playbook execution and AI-driven threat analysis.
- Scaled platforms supporting 5,000+ IoT devices with real-time data processing via Kafka and Celery.
- Cut infrastructure costs through advanced caching, query optimization, and AWS resource right-sizing.
- Produced REST and GraphQL APIs plus Python connectors for ServiceNow, Splunk, and Microsoft Sentinel, streamlining enterprise security workflows.

PROFESSIONAL EXPERIENCE

Senior Backend Developer

HeyMarvin | Bangalore, Karnataka (Remote) | Dec 2025 – Apr 2026

- Own backend services end-to-end - scoping, architecture, execution, deployment, and stakeholder communication, shipping features on tight timelines with a delivery-first mindset.
- Drive architecture and technical decisions for an AI-powered qualitative research platform, building retrieval-augmented generation pipelines for intelligent document retrieval.
- Built and maintained Python backend services handling high-throughput data ingestion pipelines, including a Django-based core platform and FastAPI microservices for async processing, video uploads, and third-party research tool integrations.
- Implemented PII detection and redaction across survey response ingestion pipelines, ensuring compliance and data safety before downstream processing.
- Built a lightweight internal FastAPI service for async webhook handling and third-party research tool callbacks, using SQLAlchemy ORM for event persistence and audit logging.
- Implemented integrations with third-party research and data tools, enabling seamless data flow into the platform's backend.
- Accelerated development velocity using Claude Code and Cursor IDE, streamlining code generation, reviews, and refactoring across Python codebases.
- Produced comprehensive test suites with strong code coverage using pytest, ensuring reliability across microservices and API contracts.
- Identified risks early in project cycles, created mitigation plans, and communicated clearly with cross-functional stakeholders to set realistic expectations.

Senior Technical Lead
Trend Micro India Pvt Ltd | Bangalore, Karnataka | Aug 2023 – Nov 2025
- Led design and delivery of the Vision One SOAR platform backend in Python (FastAPI, Django) and Go, serving 10+ enterprise customers and significantly reducing incident response time.
- Architected high-performance microservices on AWS EKS for the MXDR platform, achieving strong API throughput improvement and high uptime.
- Created a multi-agent AI framework for intelligent log analysis, case prioritization, and threat hunting - eliminating a large share of manual security investigations and reducing false-positive triage substantially.
- Constructed a retrieval-augmented generation pipeline ingesting 1000+ security documents with vector embeddings and semantic search, achieving high retrieval accuracy for threat intelligence.
- Built an LLM evaluation framework benchmarking OpenAI, Anthropic, and open-source models across accuracy, latency, and cost metrics for production agent selection.
- Enforced enterprise-grade compliance modules including RBAC, audit logging, and PCI DSS standards, cutting security certification time significantly.
- Provided billing and lifecycle automation via a subscription billing platform API and custom Python reconciliation engines, substantially reducing finance team effort.
- Shipped REST and GraphQL APIs plus Python connectors for ServiceNow, Splunk, and Microsoft Sentinel, streamlining SIEM workflows.
- Optimized Redis caching, PostgreSQL query tuning with SQLAlchemy ORM, and AWS resource right-sizing - cut infrastructure costs and improved query times significantly.
- Mentored a 10-member team on Python best practices, API design, TDD, and CI/CD standards, maintaining consistent on-time sprint delivery.

Senior Software Engineer
Trend Micro India Pvt Ltd | Bangalore, Karnataka | May 2023 – Aug 2023
- Maintained and extended backend services in Python (Django) for security operations workflows.
- Built REST APIs integrating with 5+ third-party security platforms including SIEM and EDR tools, cutting alert ingestion latency across enterprise deployments.
- Collaborated with cross-functional teams on feature delivery, bug fixes, and code reviews.
- Contributed to performance improvements and test coverage across Python microservices.

Senior Technology Lead / Technology Lead
Knowledge Lens Pvt Ltd | Bangalore, Karnataka | Jul 2018 – Apr 2023
- Built and launched a License Manager platform in Python (Django, PostgreSQL), streamlining enterprise license provisioning and significantly reducing manual setup overhead.
- Engineered an IoT monitoring platform managing 5,000+ devices with real-time processing through Kafka, Celery, and Python microservices, enabling low-latency telemetry and event-driven alerting at scale.
- Developed Python-based network automation tools for protocol testing and validation, including custom packet generation, protocol state machine design, and automated diagnostics, reducing manual testing effort substantially.
- Designed self-healing automation frameworks using Python, SSH, and Kafka to detect and recover from service failures, reducing manual support incidents considerably.
- Planned and maintained REST APIs and backend services powering GLens and iLens analytics platforms, integrating with AWS Lambda and S3 event pipelines.
- Led Agile and Scrum practices, code reviews, and introduced strong unit test coverage across Python codebases with CI integration.

Associate Software Engineer
Tech Mahindra Pvt Ltd | Bangalore, Karnataka | Oct 2016 – May 2018
- Reduced manual data transfer effort by automating secure SFTP/FTPS exchanges via Python scripts on Linux/UNIX, eliminating error-prone manual file handling.
- Deployed system health checks and memory diagnostics using Python and shell scripting, reducing downtime.
- Managed 24x7 production incident response and root-cause analysis for enterprise clients, maintaining SLA compliance.

PROJECTS

Multi-Agent Debugger | github.com/vishapp/multiagentdebugger
Python AI package for multi-agent log analysis and API failure debugging. Supports OpenAI, Anthropic, Google, and Ollama. Production-tested across 500+ debugging sessions, cutting average debug time significantly.

GemMate - AI Crew Orchestrator | github.com/vishapp/gemmate
Python platform for managing AI agent teams with search, file analysis, and LLM evaluation dashboard. Reduced multi-agent setup time compared to manual orchestration.

CrewAI Master | github.com/vishapp/crewaimaster

Python framework for generating and managing autonomous AI agents with CLI, memory, and RAG context retrieval. Supports rapid deployment of production-ready agent workflows.

j2toon / mask-env

Open-source Python utilities for AI tooling and developer productivity.

EDUCATION

Bachelor of Engineering (B.E.) - Mechanical Engineering

Visvesvaraya Technological University, Mysore, Karnataka | 2012 – 2016

CERTIFICATIONS

- Claude Certified Architect - Foundations - Anthropic Academy (March 2026)
- Claude with Anthropic API - Anthropic Academy (2025)
- Build a Microservice with Go - University of California, Irvine / Coursera (2022)
- Getting Started with Go - University of California, Irvine / Coursera (2022)
- Introduction to Front-End Development - Meta / Coursera (2021)
- Crash Course on Python - Google / Coursera (2020)