

Josiah Isong

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SUMMARY

I am a software engineer with extensive experience in Python, Golang, and cloud-native systems on AWS and GCP, focusing on building scalable and reliable distributed systems and infrastructure. I am passionate about translating complex technical concepts into practical guidance and implementing customer-centric solutions.

SKILLS

Python, Golang, AWS, GCP, Docker, Kubernetes, PostgreSQL, MongoDB, Redis, Terraform, CloudFormation, Prometheus, Grafana, OpenTelemetry, RabbitMQ, Microservices, RESTful and gRPC APIs, RAG systems, LLMs, AI-powered pipelines

WORK EXPERIENCE

Evolve Credit

Nov 2021 - August 2025

Lead Backend Engineer

Remote

- I mentored and managed a team of two backend engineers, providing architectural guidance, regular feedback, and conducting code reviews.
- Led technical hiring efforts by defining role exceptions, screening candidates, and facilitating onboarding; collaborated with product and business stakeholders to align team priorities with organizational goals.
- Enhanced engineering workflows by implementing CI/CD, structured logging, and centralized monitoring and coding standards, reducing release times by 90% and production bugs by 40% while boosting delivery speed and system reliability.
- Led the design and rollout of secure, scalable cloud infrastructure on Google Cloud Platform, implementing shared VPC and IPsec-encrypted VPN. Automated infrastructure provisioning and rollback using Terraform to ensure consistent, auditable deployments across staging and production environments.
- Refactored a credit provisioning SaaS monolithic system into a decoupled, event-driven architecture, improving system performance, scalability, and fault isolation. Introduced asynchronous workflows and message-based communication to reduce service coupling and enhance system responsiveness under load.
- I architected and implemented a highly concurrent loan collection system to monitor and track accounts at scale, ensuring reliable performance under high load. The system was designed for real-time data polling and fault-tolerant processing, which facilitated timely recovery actions and enhanced operational visibility.
- I led cross-functional collaboration, converting business requirements into scalable backend solutions and fostering stakeholder alignment by transparently communicating technical trade-offs.

Hiyr

Oct 2024 - Jan 2025

Backend Engineer (Contract)

Remote

- Architected and deployed a distributed microservice system using Python (FastAPI) and Go, with containerised services orchestrated on AWS ECS. Utilized PostgreSQL for structured data storage and Redis for caching and distributed session management, ensuring scalability, resilience, and fault tolerance across environments.
- Engineered high-performance service communication layers, integrating gRPC for low-latency synchronous calls and RabbitMQ for asynchronous, event-driven task processing.
- Built an AI-powered resume processing pipeline, leveraging AWS S3 event triggers, SNS, and Redis caching to optimize performance and ensure low-latency processing.
- Developed a Retrieval-Augmented Generation (RAG) system that integrated vector search, knowledge graphs, and LLMs, to provide users with a powerful, real-time job matching and cover letter generation tool.

- Owned the entire backend lifecycle from architectural decisions and infrastructure-as-code (Terraform) to CI/CD pipelines, deployments and production debugging
- Implemented comprehensive observability across microservices, utilizing Prometheus and Grafana for real-time metrics, OpenTelemetry for distributed tracing, and AWS CloudWatch Alarms for automated alerting. This enabled performance optimization, rapid debugging, and proactive issue resolution.
- Wrote comprehensive unit and integration tests using pytest, ensuring high test coverage, reliability, and confidence in production deployments.

Munch

Apr 2022- Feb 2023

Backend Engineer (Contract)

Remote

- Designed and developed the backend architecture for rider, user, and restaurant platforms using Golang, building scalable and resilient RESTful APIs to support high-throughput operations across consumer, admin, and partner-facing applications.
- Engineered an intelligent order dispatch system leveraging AWS SQS, ElastiCache, and WebSockets to optimize restaurant-driver matching and provide real-time updates on order status and driver location, significantly improving responsiveness and delivery efficiency.
- Optimized PostgreSQL performance by refining indexing strategies and query execution plans, enabling efficient handling of high-volume transactions and reducing latency under peak loads.
- Collaborated cross-functionally with product managers and frontend engineers to translate business requirements into performant backend services, ensuring seamless feature rollouts and performance scalability at scale

OnePurse

Jul 2021 - Jan 2022

Backend Engineer

Remote

- I engineered and deployed secure, RESTful APIs using Python (Django) to support peer-to-peer financial transactions, ensuring robust input.
- Designed and maintained high-performance MongoDB schemas, optimizing query patterns and indexing strategies to support scalable financial operations and ensure data consistency under transactional load.
- Implemented and enforced CI/CD pipelines for automated testing and deployment, improving release velocity and reducing human errors during production updates.
- Integrated third-party payment gateways and external APIs, ensuring secure and reliable external communication through proper error handling, retries, and circuit breakers.
- Implemented application-level logging and monitoring, enabling real-time diagnostics and performance tracking through structured logs and integration with GCP's operations suite.
- I engaged in cross-functional collaboration to align infrastructure decisions with business needs, proactively monitoring and tuning performance to ensure system reliability during peak usage.
- Contributed to the frontend development of the admin dashboard for the peer-to-peer transaction system, implementing user interfaces and workflows to monitor, manage, and approve financial transactions

Creative Fractal

Feb 2020 - Jan 2021

Software Engineer Intern

Remote

- Designed and developed scalable RESTful and gRPC APIs in Go, backed by PostgreSQL, for a podcast application
- I implemented bi-directional streaming using gRPC and Protocol Buffers for efficient real-time data exchange.
- Built and deployed microservices in Docker, managed orchestration and scaling with Kubernetes.
- Integrated AWS services including Cognito for authentication and S3 for object storage.
- Contributed to front-end development using TypeScript, ensuring seamless integration with backend systems.
- Collaborated closely with a senior engineer, deepening practical knowledge in distributed systems, cloud infrastructure, and production-grade backend engineering.

PERSONAL PROJECTS

ProtChain, [GitHub](#)

- Architected and deployed a permissioned blockchain network using Hyperledger Fabric, implementing Fabric CA for identity management and Membership Service Provider for access control across network peers
- Designed a microservice architecture with a Golang-based REST API for Hyperledger fabric transaction management, integrating Fabric Go SDK for off-chain interactions and a Python-based bioinformatics pipeline for proteomics data processing using Biopython.
- Developed and deployed Golang-based chaincode to handle on-chain protein metadata registration and verifiable data integrity mechanisms using LevelDB as Hyperledger state databases
- Utilised IPFS for decentralised, immutable storage of protein structure data
- Developed ReactJS-based frontend, utilising NextJS for server-side rendering, enabling users to interact with the blockchain ledger, visualise protein metadata, and query stored records.

CERTIFICATIONS

[AWS Certified Solutions Architect Associate](#)

2023