Ponanna P M

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Skills

Languages: Golang, Python, Haskell, C#, Javascript, SQL, Bash

Frameworks/Runtimes: Gin, FastAPI, Flask, Node, .NET

Cloud & Infrastructure: GCP, AWS, Cloud Run, Terraform, Kubernetes, Docker, Pub/Sub, Kinesis

Databases: BigQuery, Spanner, PostgreSQL, MySQL, MongoDB, Redis, DynamoDB

Data & ETL: Apache Beam, dbt, Jupyter Notebooks

Workflows/Orchestration: Temporal

Observability: Prometheus, Grafana, Datadog, Jaeger/OpenTelemetry, CloudWatch, Elasticsearch

APIs & Messaging: gRPC, REST, Protobuf, WebSockets, OAuth/JWT

DevOps Tools: Github Actions, Renovate

Experience

ANZ - Software Engineer (Backend - Golang, Python) **Feb 2024 – Present**

- Architected event-driven data pipeline in Go on Cloud Run (Terraform IaC) that decouples systems via Pub/Sub events, parsing and loading into BigQuery to enable async processing, analytics, and data product consumption across teams.
- Built scalable data products using dbt transformations on BigQuery, delivering standardized datasets that accelerated reporting and experimentation for multiple consumption teams.
- Engineered CI/CD pipelines with GitHub Actions, automating deployments and proof-gathering to cut release turnaround time and boost deployment reliability.
- Rewrote legacy Java loan simulation tool in Go, enhancing maintainability and enabling rapid validation of credit decision rulesets for analytics generation.
- Implemented Cloud Run-based validation system using Jupyter Notebooks to verify post-credit-decision loan outcomes, ensuring data integrity across pipelines.
- Developed gRPC APIs and extended credit decisioning system features, supporting new lending scenarios with improved security and performance.
- Integrated observability stack with Prometheus, Grafana, and Jaeger/OpenTelemetry to monitor distributed workflows and optimize system reliability.

Sequoia - Backend Engineer (Backend - Golang, Python, Node) **Dec 2021 – Feb 2024**

- Architected and implemented full-stack backend for employment offer management system in Go and MongoDB, orchestrating end-to-end lifecycle from offer creation through digital acceptance.

- Engineered Redis-MongoDB hybrid caching layer, reducing query latency and database load while maintaining data consistency across distributed microservices.
- Designed state machine-based workflow engine with event-driven callbacks, enabling complex multi-stage offer approval processes with automated notifications.
- Established comprehensive unit testing framework with CI integration, improving code coverage and enabling rapid feature iteration with confidence.
- Built production-grade client-side encryption system for S3 document storage with secure one-time access links, including zero-downtime migration tooling for existing files.
- Implemented high-performance goroutine worker pool with dynamic scaling and graceful shutdown, improving document generation throughput by 3x while preventing resource exhaustion.
- Designed and deployed reverse proxy gateway with configurable rate limiting, custom rule engine, and DDoS protection, securing public-facing APIs.

Juspay - Software Development Engineer (Backend - Haskell) **Jun 2021 - Dec 2021**

- Architected OCEN-compliant loan origination system in Haskell, orchestrating integrations across loan service providers, account aggregators, and credit bureaus for real-time borrower assessment.
- Built a flexible business rule engine with configurable decision trees, enabling lenders to define custom credit policies while maintaining regulatory compliance and audit trails.
- Engineered event-driven workflow system using Redis Streams for asynchronous loan processing, ensuring OCEN protocol compliance.
- Re-engineered loan application onboarding flow with progressive disclosure and intelligent form validation, achieving improvements in completion rate (27% to 91%).
- Contributed to engineering team growth as technical interviewer and hackathon organizer, helping scale the credit platform team during rapid product expansion.

Aurigo - Senior Software Engineer (Backend - C#) **Jun 2017 - May 2021**

- Engineered end-to-end Bid Management System automating procurement workflows for state contracts, including online bidding, vendor management, and automated award processing.
- Designed FMIS integration layer using XML-based data exchange, enabling real-time financial data synchronization between Masterworks and legacy finance systems.
- Developed Windows service based job scheduler with retry logic and error handling, automating bidirectional data integration flows with external systems.
- Enhanced unit price search with advanced filtering and caching, reducing contractor search time and improving bid preparation efficiency for department staff.

Education

Sri Jayachamarajendra College of Engineering **Aug 2013 - May 2017**

B.E. Electronics and Communication CGPA: 8.59/10