Kunal Sarangdhar Badade

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Senior software engineer with 10+ years designing, building, and operating scalable distributed systems and service-oriented architectures. Deep expertise in backend system integration, API platform governance, and production reliability across AWS and GCP. Experienced in Java, Python, Node.js, and TypeScript across enterprise-scale systems.

Technical Skills

Languages:	Java, Python, Node.js, TypeScript, JavaScript
Cloud:	AWS (ECS, Lambda, S3, DynamoDB, SQS, Firehose), GCP (Cloud Run, Pub/Sub, BigQuery, Cloud SQL, GKE)
Infrastructure:	Kubernetes, Knative, Terraform, Docker, Helm, Skaffold, GitLab CI/CD
Data:	Redis, DynamoDB, PostgreSQL, BigQuery
Observability:	Datadog APM, Distributed Tracing, Structured Logging
AI / ML:	ML Model Serving, Inference Pipelines, Feature Engineering, Model Monitoring
API:	Apigee, OAuth, OpenAPI / Swagger, REST, Express.js, FastAPI
Testing:	Mocha, Chai, Sinon, Pytest, TDD

Master of Science in Computer Science | California State University Fullerton, CA | GPA: 3.77 — May 2020

Bachelor of Engineering in Information Technology | Savitribai Phule Pune University, Pune | GPA: 3.80 — May 2015

Work Experience

Senior Software Engineer | American Family Insurance | Boston, MA — July 2020 – Present

Technology*:* Node.js, TypeScript, Python, AWS, GCP (Cloud Run, Pub/Sub, BigQuery), Terraform, Datadog

- Architected and operated a distributed data aggregation platform comprising 9 microservices across AWS and GCP, orchestrating 17 external vendor and internal data source integrations with dependency-aware parallel execution and graceful fallback strategies.
- Deployed production ML inference service on GCP Cloud Run, collaborated with data scientists to serve 26 predictive models for property risk assessment; provisioned full infrastructure stack (Cloud SQL, Redis, Pub/Sub, BigQuery) via Terraform across 3 environments with automated secrets management.
- Engineered a fact-based rules engine with 27 state-dependent reconciliation rules, resolving conflicting property data across 6+ vendor sources with geographic priority chains and graceful fallback strategies covering all 50 US states.

- Architected cross-cloud event pipeline enabling AWS ECS services to publish structured data and error events to GCP Pub/Sub, with downstream streaming into BigQuery for analytics, auditing, and long-term data retention.
- Established Kubernetes deployment patterns with Knative auto-scaling, readiness/liveness probes, and Helm-based configuration for production Cloud Run workloads.
- Owned API governance across the platform — designed Apigee proxies, OAuth authentication flows, and OpenAPI specifications with 50+ schema definitions; built multi-layer caching with Redis (30–60 day TTL), DynamoDB, and BigQuery.
- Established observability standards by instrumenting all services with Datadog APM, distributed tracing; built actionable monitors and alerts enabling proactive issue detection and SLA adherence.
- Drove test automation across the platform, covering unit, integration, and end-to-end scenarios using Mocha, Chai, Sinon, and Pytest.
- Led a team of 3 engineers as acting technical lead; mentored junior engineers on distributed systems design, code review practices, and production readiness; coordinated delivery across platform, infrastructure, and product stakeholders.

Software Engineer | Zensar Technologies | Pune, India August 2015 - August 2018
John Lewis Retail Selling Operations
Technology: Java and Mainframe

- Developed and maintained Java RESTful APIs for John Lewis Partnership's retail selling operations, integrating order management, inventory, and point-of-sale systems across distributed services handling high-volume retail transactions.
- Delivered end-to-end features across Java and Mainframe (COBOL, JCL) platforms, implementing cross-system data flows and batch processing for a large-scale enterprise retail environment.
- Optimized SQL query performance through indexing strategies, query restructuring, and client-side caching, contributing to measurable throughput improvements and on-time delivery of revenue-critical retail initiatives.

Accomplishments

- Published an article on HTTP Load Balancing and Subrequest Authentication with NGINX.
- AWS Certified Cloud Practitioner – Credential ID X0VMV1EL2E111WG0