

Sathvik Vutukuri

IMMEDIATELY AVAILABLE TO JOIN

BACKEND ARCHITECT | DISTRIBUTED SYSTEMS | FULL-STACK CAPABLE | AI AGENTIC WORKFLOWS

📍 Bengaluru, India | Open to Bengaluru, Hyderabad & remote roles

📞 8197748291

✉️ 7vik.sathvik@gmail.com

🌐 linkedin.com/in/sathvik-v-aba1b960/

🌐 pa1sathvik.github.io

PROFESSIONAL SUMMARY

Backend architect and Member of Technical Staff with **11+ years** of software engineering experience. Hands-on expertise in **end-to-end microservices development** and **large-scale distributed systems**, from architecture and implementation through production delivery. Integrates **AI agentic workflows** into distributed platforms, with **front-end development** experience building React web portals. Combines backend depth, **full-stack capability** and **cross-functional technical leadership** to deliver complete solutions.

CORE TECHNICAL SKILLS

Backend & systems: Java 8–25, Spring Boot, Spring AI, virtual threads, structured concurrency, REST, GraphQL, gRPC, microservices, distributed scheduling, event-driven architecture, idempotency, fault tolerance

Data & cloud: Bigtable, Kafka, Pulsar, GCP, GKE, Kubernetes, Docker, Oracle, MongoDB, Amazon S3

AI & full stack: MCP, RAG, AI agents, Claude/Gemini APIs, function calling, prompt orchestration, React, Redux, JavaScript, SQL

Observability: OpenTelemetry, Prometheus, Grafana, Micrometer, Datadog

PROFESSIONAL EXPERIENCE

PayPal | Member of Technical Staff I / Backend Architect

Apr 2022 – Present | Bengaluru, India

- Architected the **KAIROS Deferred-Intent Scheduler**, a durable, leaderless distributed timer on Google Bigtable and Pulsar, sized for **25–30M deferred intents/day** and bursts of **up to 2M** due simultaneously, using atomic checkAndMutate claims.
- Owned the scheduler's end-to-end low-level design: hash-prefixed row keys, scan-claim-dispatch pipeline, cell-timestamp-based garbage collection and **failure recovery**.
- Designed and delivered core components of KAIROS, PayPal's production Communication Decision Platform governing what consumers receive, when and on which channel; designed the Intent Management System for intent ingestion and management.
- Led backend architecture and delivery of PayPal's **Server-Driven UI (SDUI)** platform from inception to production, serving **1B+ requests/day** across core mobile and web experiences.
- Architected SPF flow inheritance, decision frames, version management, schema versioning and database design, enabling dynamic journeys and server-controlled UI updates across iOS, Android and Web without app releases.
- Guided **cross-functional SDUI adoption** through the SPF Admin UI Builder; established reusable, multi-tenant components and integrated localization, ELMO A/B testing and personalization signals.
- Architected and owned the **communications backend** for scheduling and delivery across Push, Notification Center, Critical Alert and Silent Push for PayPal, Venmo and Xoom; driving a redesign for scalability, multi-region support and centralized decisioning.
- Built a **production Communications API AI agent** and an **MCP server** integrated with Claude, exposing platform tools and APIs for natural-language interactions and automated communication workflows.

PROFESSIONAL EXPERIENCE CONTINUED

PayPal | Member of Technical Staff I / Backend Architect

Apr 2022 – Present (continued) | Bengaluru, India

- Architecting KAIROS AI communication agents with Claude and Gemini APIs, function calling and prompt orchestration for intent evaluation, message eligibility scoring and contextual payload generation.
- Pioneered team-wide AI-assisted engineering with Gemini and Claude for code generation, complex refactoring and JUnit/Mockito test suites with **90%+ edge-case coverage**.
- Designed and built **Beacon** end to end in React, a production portal used company-wide to schedule and manage communications.
- Extended SDUI into **Verse** for native iOS and Android content delivery, designing version-aware REST APIs, reusable content models and in-memory caching to minimize ECM reads and refresh content only when versions change.

Informatica | Senior Software Engineer

Mar 2020 – Apr 2022 | Bengaluru, India

- Architected and built **SecureStats** end to end, a security-flaw management platform spanning backend, frontend, database design and APIs.
- Co-designed Flaw Management and Notification services within a microservices architecture; **mentored 5 engineers** on service design and architecture decisions.

Investnet Yodlee | Senior Software Engineer

Nov 2015 – Mar 2020 | Bengaluru, India

- Architected **Juggernaut**, a microservice platform for automated issue resolution on Yodlee PFM, owning end-to-end backend and frontend design.
- Designed observability using Spring Boot Actuator, Micrometer, Prometheus and Grafana, and microservice infrastructure with Eureka, Zuul and Hystrix.

EDUCATION

B.Tech in Computer Science and Engineering | JNTU Kakinada

2011 – 2015 | GPA 7.9/10

AWARDS

PayPal SPOT Awards — SDUI | Q3 2022, Q4 2023

Informatica INFASTAR — SecureStats | Q1 2021

Yodlee Dream Team — Juggernaut R&D | Q2 2018, Q2 2019

Yodlee Spot Awards | Q2/Q3 2016, Q1 2018, Q3 2019