

Jayachandra M

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Staff Software Engineer with 7+ years of experience building and scaling distributed backend systems, payment workflows, and event-driven platforms. Experienced in high-throughput APIs, asynchronous processing systems, webhook platforms, and resilient partner integrations. Strong background in platform engineering, reliability, observability, and leading backend initiatives for critical financial workflows.

SKILLS

AWS, Celery, Grafana, Kafka, MySQL, Prometheus, Python/Django, Redis, Terraform.

WORK EXPERIENCE

Jodo • Bengaluru, Karnataka, India

Staff Software Engineer

Oct 2024 - Jan 2026

- **Tech Stack:** Python, Django, MySQL, Redis, Kafka, AWS, Docker, Terraform.
- Architected and developed a large-scale invoice orchestration platform responsible for fetching real-time fee details from ~400 external partner systems and presenting invoices for automated debit processing through providers including Digio and Easebuzz.
- Designed the workflow to reliably process 50K–60K invoices/day and support payment processing volumes exceeding ₹100Cr/day within strict processing windows, despite highly unpredictable upstream latencies ranging from sub-second responses to ~60s per request.
- Engineered asynchronous processing pipelines using Apache Kafka, Redis, and persistent state tracking to guarantee invoice correctness, fault tolerance, and recovery across fetch, synchronization, and presentation stages, preventing incorrect debit amounts and reconciliation mismatches.
- Built scalable worker orchestration and autoscaling workflows, scaling worker pools from 4 to 40 workers and EC2 autoscaling groups from 4 to 20 instances during peak processing loads.
- Developed forecasting and operational reporting jobs to predict invoice volumes, monitor scaling requirements, and support internal/external operational follow-ups.
- Architected and developed an event-driven webhook platform delivering near real-time notifications for payment, invoice, and workflow events to external partner systems.
- Built scalable webhook ingestion and delivery pipelines with queue isolation, retry orchestration, exponential backoff strategies, event prioritization, and durable audit trails using Amazon Web Services S3.
- Engineered asynchronous upstream webhook processing systems capable of handling large event spikes generated during bulk settlement and payment processing workflows.
- Enhanced platform security through RBAC systems, centralized Go-based authentication proxy services, infrastructure automation using Terraform, and observability pipelines using Grafana, Prometheus, Sentry, and OpenTelemetry.
- Led the integrations team (3 engineers, including 2 direct reports), with ownership across architecture reviews, backend hiring, engineering standards, production operations, and incident management for critical payment and integration workflows.

Senior Software Engineer

Jul 2021 - Sep 2024

- **Tech Stack:** Python, Django, MySQL, Redis, Celery.
- Owned backend REST API development for internal applications and external partner integrations supporting payment and fee collection systems, with push integration APIs consistently maintaining p99 latencies of ~500 ms.
- Improved latency of a critical metadata service by ~75%, reducing API response times from ~2 seconds to ~500 ms.

- Designed and implemented bidirectional integrations with major EdTech partners including Unacademy and ALLEN Career Institute for user onboarding, fee synchronization, and automated payment workflows.
- Built scalable push and pull integration frameworks enabling secure data exchange between partner platforms and internal systems.
- Contributed to the initial webhook/event delivery system using Amazon Web Services Lambda for near real-time event notifications to external partners.
- Contributed to improving the atomicity of transaction updates.

Tally Solutions Pvt Ltd • Bengaluru, Karnataka, India

Software Development Engineer II

Jun 2020 - Jul 2021

- **Tech Stack:** C/C++
- Developed installer and application management systems for TallyPrime Release 1.0, supporting deployment and version management across multiple enterprise products.
- Developed native Windows application features using low-level Windows interfaces/APIs, including custom UI rendering and system integration components.
- Implemented environment and configuration management functionality for Windows desktop applications.

Software Development Engineer - I

Jan 2019 - Jun 2020

- **Tech Stack:** C/C++, Python, Shell Scripts.
- Collaborated with the DevOps team to maintain and enhance Jenkins-based build and deployment scripts for a large monolithic repository.
- Reduced build time from ~45 minutes to ~15 minutes through build pipeline optimizations, significantly improving engineering productivity and developer feedback cycles.

Software Engineer-Trainee

Jul 2018 - Dec 2018

- **Tech Stack:** Python, TDL.
- Developed financial reporting solutions for SME customers using TDL and internal tooling.
- Contributed to feature validation, bug identification, and unit test development to improve product reliability.

EDUCATION

Bachelor of Engineering in CSE

R. V. College of Engineering, Bangalore

Jan 2014 - Dec 2018