

VANGA AKASH REDDY

Backend & Platform Engineer

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SUMMARY

Backend engineer with **2.5+ years full-time** (plus a 6-month internship) building revenue-critical production systems on **Node.js, Express, MongoDB and AWS**, with **Cloudflare Workers** at the edge and **React + TypeScript** front ends. Experience across payment-gateway and UPI integrations, queue-driven background workers, OCR and LLM document pipelines, notification and messaging platforms, and internal business tooling. Owns services end-to-end — from API contract and data model through deployment, monitoring and first-line on-call. Promoted twice in two years. Open to Backend, Platform or DevOps roles.

WHAT I CAN BUILD

- **Payment & billing flows** — gateway checkout and order lifecycle, UPI collection, idempotency keys, signed-webhook verification, exponential backoff, dead-letter handling and daily settlement reconciliation.
- **Queue-driven background processing** — moving slow, bursty or failure-prone work off the request path; at-least-once delivery with idempotent handlers, bounded retries, dead-letter queues, concurrency limits and scheduled jobs.
- **Document pipelines (OCR + AI)** — upload → object storage → OCR → LLM structured extraction → schema-validated record, with duplicate detection, a human review step for low-confidence fields, and templated DOCX/PDF generation.
- **Multi-channel notifications & messaging** — one event fanned out to mobile push, email, business-messaging and internal channels; templates, scheduling, audience segmentation, opt-out handling and A/B variant testing.
- **Internal tools, admin consoles & dashboards** — searchable tables over large datasets, configurable pipeline and stage workflows, role-based and per-module access control, change history, audit stamps and exportable reporting.
- **Third-party integrations & edge services** — OAuth flows with refresh-token rotation, rate-limit-aware sync jobs, pagination, inbound webhook receivers with signature verification, and full applications on Cloudflare Workers, D1 and R2.

EXPERIENCE

Software Engineer

Apr 2026 – Present

JaaGa.AI — Hyderabad, India (promoted)

- **Own backend services end-to-end** — API design and data modeling through deployment, monitoring and on-call.
- **Design and ship internal business platforms** — configurable pipeline and workflow tooling, scheduling and reminders, role-based access control and reporting — taking each from spec through the data model to the React / TypeScript interface.
- **Built a multi-channel marketing and messaging platform** on **Cloudflare Workers, D1 and R2**, integrating several third-party marketing and messaging APIs behind a single interface — replacing a paid SaaS subscription.
- **Architected a payment retry and reconciliation layer** — idempotency keys, exponential backoff, signed-webhook verification, dead-letter handling and a daily settlement reconciliation job — plus a UPI collection rail with an operator confirmation step.
- Write and maintain **runbooks**; first-line on-call and blameless post-mortems with follow-up actions driven to closure.
- Partner with finance, ops, product and legal to turn ambiguous business asks into precise, shippable specs.

Backend Developer

Apr 2024 – Apr 2026

JaaGa.AI – Hyderabad, India

- **Designed and shipped revenue-critical services** on AWS, MongoDB and Node.js, backed by **SQS queue workers** for anything slow, retryable or bursty.
- **Integrated a payment gateway end-to-end** – checkout, webhook signature verification, idempotent retries with exponential backoff and settlement reconciliation – so a duplicate callback or a dropped response can never double-charge or lose a payment.
- **Built a notification platform** – a single consumer fanning one event out to push (Firebase Cloud Messaging), messaging, email and internal channels, with template fallbacks and queue-backed retries; later extended with audience segmentation and A/B variant testing.
- **Automated document processing** with an S3 → OCR → LLM extraction → MongoDB pipeline plus templated document generation, replacing a manual read-and-retype step with a validated, reviewable one.
- Profiled and tuned **MongoDB indexes and aggregations** and Node.js hot paths (event-loop pressure) to remove latency bottlenecks under real traffic.

Backend Developer Intern

Oct 2023 – Mar 2024

JaaGa.AI – Hyderabad, India

- Shipped REST endpoints in **Node.js and Express** against MongoDB, contributing production-facing features within the first three months.
- Wrote schemas, queries and validation for new modules; learned code review, deployment discipline and debugging real incidents.
- Converted to full-time on the strength of ownership shown on the document-processing and billing work.

TECHNICAL SKILLS

Languages	JavaScript (ES2022), TypeScript, Node.js, SQL, Bash, HTML5, CSS3
Backend & APIs	Express, REST API design, Mongoose, Joi validation, JWT & sessions, bcrypt, Helmet, rate limiting, input sanitisation, Winston & Morgan logging, cron jobs
Data & storage	MongoDB (data modeling, indexing, aggregation pipelines, GeoJSON / geospatial), Redis, Cloudflare D1, AWS S3, Cloudflare R2, Azure Blob Storage
Cloud & DevOps	AWS (Lambda, S3, SES, SQS), Cloudflare Workers, Pages, D1, R2 and Wrangler, Docker, Nginx, PM2, Vercel, shell deployment scripts, dev / staging / production environments
AI & documents	Google Gemini, Vertex AI, Tesseract OCR, structured extraction, docxtemplater, mammoth, pdf-lib, pdf-parse, QR generation
Integrations	Payment gateways (Cashfree) and UPI, WhatsApp Business Cloud API, Meta Graph API, Instagram Graph API, Google Ads API, Meta Ads API, Google Search Console API, Firebase Cloud Messaging, Nodemailer, Telegram Bot API, Slack / Teams webhooks
Frontend	React 18 / 19, Vite, TanStack Query & Table, Redux Toolkit, Zustand, React Router, React Hook Form + Yup, Tailwind CSS, Radix UI, shadcn/ui, MUI, Recharts, Leaflet
Reliability	Idempotency, retries with exponential backoff, webhook signature verification, dead-letter handling, reconciliation jobs, rate limiting, RBAC, audit trails, observability and alerting, runbooks, on-call and post-mortems
Tools	Git and pull-request review, Postman, Puppeteer (web scraping), Linux, Jira, AI-assisted development

EDUCATION

Master of Computer Applications (MCA) – Osmania University, Hyderabad	2025 – 2027 (in progress)
B.Sc. – Electronics, Computer Science & Mathematics – Andhra Loyola College, Vijayawada	2019 – 2022

CERTIFICATIONS

Introduction to Databases · AI Fundamentals · Build Your Own Responsive Website · Build Your Own Static Website · AI for Brainstorming and Planning