

# Akash R P

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## Summary

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Backend-focused with **3 years** of experience building scalable backend systems using Node.js, TypeScript, PostgreSQL, Redis, and AWS. Experienced in microservices, event-driven workflows (Kafka), background jobs, real-time updates, geospatial features, and payment integrations across Healthcare, SaaS, EdTech, and E-commerce platforms.

## Skills

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**Backend & Systems:** Node.js, TypeScript, Express.js, PostgreSQL, MS SQL, MongoDB, Redis, Prisma, Sequelize, REST APIs, Microservices, Event-Driven Systems (Kafka), Queues (BullMQ), Caching, Cron Jobs, Audit Logging, Real-time Updates (WebSockets / Firebase), H3

**Frontend, Cloud & Integrations:** React, Next.js, TailwindCSS, Redux, Django, HTML, CSS, AWS (EC2, S3, RDS, SES, Lambda, DynamoDB, CloudFront, SNS, CodePipeline), Docker, Nginx, PM2, DigitalOcean, Razorpay, PayPal, Chapa, Firebase Admin, Google Maps API, Git, Jira, Agile/Scrum, Postman, Jest, Zod

## Professional Experience

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**ThinkJS Private Limited– Bangalore**

**June 2023 - February 2026**

*Software Engineer*

*Bangalore*

**Project :** *IQVIA NextGen Speaker Bureau (Healthcare Engagement Platform)*

- Developed backend APIs for complex engagement workflows (speaker selection, attendees, catering, AV, venue).
- Built automated task creation and lifecycle management for engagement statuses.
- Implemented audit tracking for major engagement and task lifecycle events for compliance and traceability.
- Worked with **Kafka to publish engagement events and status updates**, enabling synchronization between **legacy systems and NextGen services across multiple databases**.
- Integrated **Kafka-driven events with Firebase** to deliver real-time updates across **mobile apps, web portals, and admin panels**.
- Coordinated with QA and FE teams for sprint delivery and dependency resolution.
- Followed coding standards, incorporated code-review feedback, and wrote Jest unit tests.
- Worked within a **microservice setup** with separate services and databases per client.
- Used Cursor IDE for **AI-assisted** coding, refactoring, and test generation to improve development productivity.
- **Tech Stack:** Node.js, TypeScript, Express.js, Prisma, MS SQL, Redis, Docker, Zod, AWS (S3, SES), Firebase, Kafka

**Project :** *[Youcan Waste Management](#) (SaaS)*

- Contributed from project initiation—architecture planning, API design, deployments.
- Built backend for User, Collector, Recycler apps including waste pickup workflows.
- Implemented **Uber H3** and **Google Maps APIs** for geospatial **proximity search**
- Created **cron jobs and BullMQ-based background jobs** for scheduled pickups, payouts, retries, and system automation
- Developed wallet system with Chapa and **PayPal** integrations.
- Created **cron jobs** for scheduled pickups, payouts, and automation.
- Used **Redis** and **DynamoDB** for storing collector locations, device tokens, and fast retrieval.
- Integrated **AWS S3, Lambda** (invoice generation), **SES**, and **RDS**.
- Integrated **Firebase** Cloud Messaging (FCM) for the notification service.

- **Tech Stack:** Node.js, TypeScript, Express, PostgreSQL, Redis, AWS, Google APIs, DynamoDB

**Project :** [Lifedemy](#) (EdTech Platform)

- Developed analytics APIs for dashboard insights (views, ratings, watch duration).
- Built course-wise rating analytics (5-star, 4-star, 3-star breakdown).
- Implemented export functionality with date-range filters.
- Created episode-level analytics: watch percentage, most/least watched, feedback.
- Wrote optimized **SQL** queries for large datasets to improve performance.
- **Tech Stack:** Node.js, JavaScript, Express, PostgreSQL, AWS

**Way2Agribusiness India Pvt Ltd, Bangalore**

**February 2023 - June 2023**

Full Stack Developer (Intern)

Bangalore,

**Project :** [Way2AgriTech](#)

- Independently worked on rebuilding parts of the existing PHP-based system using **Django, Node.js, and Next.js** during the internship.
- Developed core backend APIs for product management, inventory, and order workflows using Node.js and PostgreSQL.
- Migrated selected features from the PHP application into the new stack through self-learning, debugging, and iterative improvements.
- Built and improved frontend screens in **Next.js** to enhance usability and fix UI issues.
- Managed deployments on **DigitalOcean**, including server setup, application configuration, and troubleshooting.

## Achievements

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- Built and maintained **production-grade backend APIs** across Healthcare, SaaS, EdTech, and E-commerce platforms.
- Implemented **event-driven systems using Kafka**, enabling reliable communication between legacy and modern services.
- Improved backend performance through structured **SQL query optimization and Redis-based caching**.
- Designed and implemented **asynchronous workflows** using background jobs and queues (BullMQ).
- Enabled **real-time system updates** across multiple frontends using Firebase events and socket-based communication.
- Integrated multiple third-party systems including payment gateways, mapping services, AWS services, and vendor systems.

## Certification

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- [Complete 2023 Web Development Bootcamp](#) – Udemy
- [Complete SQL and Databases Bootcamp](#) - Udemy
- [TypeScript: The Complete Developer's Guide](#) - Udemy

## Education

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**Sri Venkateshwara College of Engineering, Bangalore**

**2019 - 2023**

Bachelor of Engineering, Computer Science and Engineering