

ABISHEIK VIJAYARANGAN

Backend Developer

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SUMMARY

Full-stack-leaning Backend Developer with 3+ years of experience designing and scaling microservices-based systems using Node.js, NestJS, PostgreSQL, and Angular. Proven track record optimizing API/database performance, building end-to-end authentication systems, setting up production infrastructure, and leading QA automation and Agile delivery. Recognized as Walkzero's Best Employee of the Year (2024) for engineering impact.

TECHNICAL SKILLS

Backend & APIs: Node.js, NestJS, REST APIs, GraphQL, Microservices Architecture, Domain-Driven Design

Frontend: Angular, Authentication/Authorization Flows (OAuth, JWT), Responsive UI Integration

Databases & Performance: PostgreSQL, Schema Design, Indexing, N+1 Query Elimination, Query Optimization

Infra & Cloud: AWS, Server Setup (Dev/QA Environments), Cost Optimization, Docker, Linux

Languages: TypeScript, JavaScript, Java

Process & Tools: Agile/Scrum, Sprint Planning, QA Automation Leadership, Git, Postman

EXPERIENCE

Backend Developer — Walkzero

Aug 2023 – Present

Chennai, India

- Architected and led development of a microservices-based Property Management System from the ground up, defining service boundaries and inter-service communication across [X] independently deployable services.
- Designed and shipped EMS (Energy Management System) covering meter reading ingestion and consumption-based billing, and AMS (Asset Management System) for asset lifecycle management — both as independent, isolated microservices for scalable, decoupled deployment.
- Designed and built the end-to-end authentication system for the Walkzero console — secure login, session handling, and role-based access control — across both the Angular frontend and NestJS backend.
- Optimized API and database performance by eliminating N+1 queries, introducing targeted PostgreSQL indexing, and reducing over-fetching and redundant calls in GraphQL/REST endpoints, cutting average response times by [X]%.
- Built Dev and QA server infrastructure from scratch for Walkzero and introduced swap memory configuration in production, improving server stability and reducing AWS infrastructure costs by [X]%.
- Lead the QA Automation team and manage sprint planning, driving Agile adoption across the team to improve release quality and delivery predictability.
- Received client appreciation for hard work, optimized workflows, and effective project management; recognized as Walkzero's Best Employee of the Year (2024).

PROJECTS

Walkzero-PMS — Property Management System (Microservices Architecture)

- Designed and developed a microservices backend for managing properties, buildings, floors, and units, modeling [X]+ entity relationships with referential integrity across services.
- Defined API contracts and inter-service communication patterns to keep property, energy, and asset domains independently deployable.

EDUCATION

Bachelor of Technology — SASTRA University

Jul 2017 – Jun 2021

AWARDS

- Best Employee of the Year — Walkzero (November 2024)

LANGUAGES

English (Fluent), Tamil (Native)