

Karthik P

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Professional Summary

Software Engineer with 3+ years of experience building, deploying, and supporting enterprise software across ERP, HRMS, and Manufacturing Execution Systems. Experienced in developing full-stack applications, backend APIs, relational data models, real-time IIoT integrations, and enterprise workflows. Proven experience taking software from requirements and system design through development, customer deployment, troubleshooting, and production support.

Professional Experience

Pivotr Technologies

Bengaluru

Software Engineer

June 2025 – Present

- Architected and delivered **2 core ERP modules, Asset Management and Inventory Management**, with full-stack architecture, APIs, relational data models, and enterprise workflows using TypeScript, Next.js, NestJS, Prisma, and PostgreSQL.
- Designed an **AI-assisted development workflow** with automated linting, type checking, and static analysis to validate changes and maintain consistent code quality before integration.
- Developed REST and tRPC APIs, database schemas, and business logic for asset lifecycle and inventory operations.
- Delivered **12 Asset Management deployments** across customer environments, handling configuration, rollout, troubleshooting, and post-deployment operations.
- Built Inventory Management proof-of-concepts around prospective customer workflows, translating operational requirements into working product functionality.

Getin Solution

Bengaluru

Software Developer

June 2023 – May 2025

- Developed and deployed **2 enterprise applications**, a manufacturing-focused HRMS and Manufacturing Execution System, using Angular, Django, and PostgreSQL.
- Built full-stack workflows for **production planning and control, quality management, employee attendance, and shift management**, supporting manufacturing operations.
- Integrated and processed **real-time IIoT data from factory devices** to support production monitoring, OEE tracking, and operational dashboards.
- Designed an automated shift-recognition algorithm supporting **3 shift models: Fixed, Rotational, and Auto Shift**, using real-time employee check-in and check-out data, including shift scenarios spanning multiple calendar days.
- Delivered **20+ customer deployments** across HRMS and MES products, contributing to configuration, testing, troubleshooting, rollout, and post-production support.
- Built and demonstrated multiple **MES proof-of-concepts** tailored to prospective customer requirements and manufacturing use cases.

Education

MVJ College of Engineering

Bengaluru

Bachelor of Engineering, Mechanical Engineering

2022

Research: Presented a research paper at the Second International Conference on Materials and Technologies, 2022.

Skills

- **Languages:** TypeScript, JavaScript, Python, SQL

- **Frontend:** Next.js, React, Angular
- **Backend:** NestJS, Django, Node.js, REST APIs, tRPC, Django REST Framework, FastAPI
- **Database & ORM:** PostgreSQL, Prisma, Redis
- **Testing:** Unit Testing, Integrated Testing, Jest,
- **DevOps & Engineering Tools:** Git, GitHub, Docker, GitHub Actions, Linux
- **Software Engineering:** System Design, API Development, Database Design, CI/CD, Software Development Lifecycle, Production Deployment, Debugging, IIoT Integration

Certifications

- Advanced Software Engineering – Walmart Global Tech, 2024
- Back-End Engineering Virtual Experience Program – Lyft, 2023
- Advanced React – Meta, 2023
- Intermediate Coding in Python – PrepInsta, 2023
- Programming for Everybody – University of Michigan, 2021

Languages

- **English:** Native or bilingual proficiency
- **Kannada:** Native or bilingual proficiency
- **Hindi:** Full professional proficiency
- **Telugu:** Limited working proficiency
- **Spanish:** Elementary proficiency

Activities

- **Volhester Racing Club:** Participated in collegiate go-kart racing, primarily contributing to kart fabrication and driving.
- **Tomorrow's Engineers Club:** Participated in multidisciplinary technical activities focused on teamwork, practical problem-solving, and leadership.
- **Football:** Represented the college in various football competitions.