

PAVAN KUMAR CHINCHALPET

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PROFESSIONAL SUMMARY

Full Stack Engineer with a results-driven mindset, specializing in scalable SaaS and web platforms built using Next.js, React, Node.js, NestJS, and PostgreSQL. Experienced in architecting robust backend systems, developing intuitive and high-performance frontend dashboards, and implementing secure authentication and authorization workflows. Adept at performance optimization, caching strategies, and deployment automation, delivering stable, high-impact applications supporting hundreds of active users in production.

SKILLS

Programming Languages: JavaScript (ES6+), TypeScript, Java, Python

Frontend Technologies: HTML5, CSS3, Tailwind CSS, Bootstrap, React.js, Next.js

Backend Technologies: Node.js, Express.js, NestJS, Spring Boot

APIs & Communication: RESTful APIs, GraphQL, WebSockets, API Integration

Databases: PostgreSQL, MongoDB, SQL, NoSQL, Supabase, Neon

ORM & Caching: Prisma ORM, Mongoose, Hibernate, JDBC, Redis

Auth & Architecture: JWT, RBAC, MVC, Microservices

DevOps & Tools: Git, GitHub, Postman, npm, VS Code, Vercel, Render, CI/CD

Other Skills: Responsive Design, Debugging & Testing, Performance Optimization

EXPERIENCE

Full Stack Developer | Datavalley.ai Jan 2025 - Present

- Architected and developed a scalable Learning Management System (LMS) supporting 500+ active users with Admin, Trainer, and Student roles.
- Implemented JWT-based authentication and Role-Based Access Control (RBAC) to secure APIs and application workflows.
- Built REST and GraphQL APIs using Node.js, Express.js, and NestJS for course management, assessments, and analytics.
- Optimized backend performance by integrating Redis caching and database indexing, reducing API response times from ~3.7s to <0.5s.
- Developed responsive and high-performance dashboards using Next.js and Tailwind CSS to track learner progress, quiz performance, and engagement metrics.
- Automated deployments using CI/CD pipelines on Vercel and Render, ensuring stable production releases and fast rollbacks.
- Designed and implemented a Placement & Lead Management Portal (CRM) to manage student profiles, application status, interview stages, and recruiter interactions.
- Built real-time status tracking and reporting features for placements, enabling admins to monitor conversions, interview outcomes, and hiring trends.
- Integrated bulk data upload (CSV/Excel) and inline editable tables, enabling admins to manage student and placement data efficiently without page navigation.
- Applied scalable database schema design and modular service architecture, improving maintainability, feature extensibility, and onboarding speed for new developers.

PROJECTS

Learning Management System (LMS)

Live: <https://learning.datavalley.ai>

Tech Stack: Next.js, TypeScript, Node.js, Express, MongoDB, Redis, JWT, Wasabi S3

- Architected and deployed a scalable LMS platform with secure multi-role management, high-concurrency handling, and JWT authentication for 500+ users
- Implemented automated workflows for video streaming, course management, daily assessments, and realtime coding challenges using Judgeo API and OpenAI-powered adaptive quiz feedback
- Built analytics dashboards in Next.js/Tailwind for trainers and admins to track progress, quiz performance, and learning metrics; added bulk upload features for grades and assets
- Achieved sub-second API responses by integrating Redis caching and database indexing; enabled scalable media delivery using Wasabi S3 and automated CI/CD on Vercel and Render
- Ensured production stability through proactive error handling, health checks, and fast rollback routines, enabling uninterrupted releases and continuous feature updates

Customer Relationship Management (CRM)

Live: <https://crm.datavalley.ai>

Tech Stack: Next.js, React, TypeScript, Tailwind CSS, Apollo Server, NestJS, PostgreSQL

- Built a scalable CRM using Next.js and NestJS (TypeScript) with a modular architecture (Controller, Service, Repository) managing entities, workflows, and user permissions
- Implemented OTP email login using Nodemailer and secure JWT-based authentication with RBAC via NestJS Guards
- Designed relational database models in PostgreSQL (Neon) for Leads, Contacts, and Organizations, and developed clean REST & GraphQL APIs
- Improved API performance through Postgres indexing and in-memory caching; optimized frontend data fetching using TanStack Query
- Developed responsive Next.js UI components and added bulk CSV/Excel upload with custom validation and real-time status updates

IoT Asset Management Dashboard

Live: <https://iot-asset.vercel.app>

Tech Stack: Next.js, Node.js, Express, PostgreSQL (Neon), Prisma, Socket.IO, JWT, Recharts

- Built a scalable IoT monitoring platform with JWT auth, RBAC (Admin/Operator/Viewer), and real-time device and telemetry dashboards using Socket.IO
- Implemented device simulator for cement-plant use cases, REST APIs for devices/telemetry, and analytics (Recharts) with responsive Next.js/Tailwind UI
- Deployed on Vercel (frontend) and Render (backend) with env-based config, health checks, and mobile-responsive layout

EDUCATION

Bachelor of Technology in Computer Science Engineering

Aug 2019 - Nov 2023

Annamacharya Institute of Technology and Sciences

Intermediate (Mathematics, Physics, Chemistry)

Jun 2017 - Mar 2019

Narayana Junior College.

CERTIFICATES

HackerRank – Software Engineer Certificate

(Problem Solving, SQL, REST APIs)

Link: <https://www.hackerrank.com/certificates/iframe/4aa7fe4d61dc>

CodeChef – Frontend Development Certificate

(HTML, CSS, JavaScript)

Link: <https://www.codechef.com/certificates/preview/e95b3c5>