PAVAN KUMAR CHINCHALPET

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PROFESSIONAL SUMMARY

Full Stack Developer with hands-on experience building scalable, production-grade web applications using Next.js, React, Node.js, NestJS, and PostgreSQL. Strong in designing clean backend architectures, developing responsive frontend interfaces, and integrating secure authentication and APIs. Proven ability to optimize performance, implement caching strategies, and deliver reliable, user-centric solutions used in real-world production environments.

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   Nov 2024 - 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 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 quick rollbacks.

PROJECTS

Learning Management System (LMS)
Tech Stack: Next.js, TypeScript, Node.js, Express, MongoDB, Redis, JWT, Wasabi S3
Live: https://learning.datavalley.ai

- Built a scalable LMS supporting 500+ users with Admin, Trainer, and Student role-based access.
- Implemented secure JWT authentication and authorization workflows across the platform.
- Optimized application performance using Redis caching and efficient database queries.
- Integrated cloud-based media storage for scalable video streaming and content delivery.

PROJECTS

CRM Application
Tech Stack: Next.js, NestJS, PostgreSQL, GraphQL, JWT
Live: https://crm.datavalley.ai

- Developed a modular CRM system to manage Leads, Contacts, and Organizations with clean architecture.
- Implemented OTP-based email login, JWT authentication, and RBAC using NestJS Guards.
- Designed optimized PostgreSQL schemas and indexed queries for improved performance.
- Built scalable REST and GraphQL APIs to support high data throughput and future growth.

Healthcare Management System
Tech Stack: Next.js, NestJS, GraphQL, Apollo Server, PostgreSQL
Live: https://healthcare-eight-bay.vercel.app

- Built a high-performance healthcare platform with sub-second page load times.
- Optimized GraphQL queries and implemented Apollo Client caching for efficient data fetching.
- Developed responsive UI components with production-ready UX patterns and smooth navigation.
- Ensured reliable backend–frontend data flow using structured APIs and caching strategies.

Quiz Sprint (Learning Platform)
Tech stack: React.js, Node.js, Express.js, PostgreSQL, Supabase, JWT, Socket.IO
Live: https://learn-mern-pied.vercel.app

- Developed a full-stack quiz platform with secure authentication and real-time progress tracking.
- Designed optimized PostgreSQL schemas and scalable backend APIs for quiz management.
- Implemented real-time features using Socket.IO for interactive user experiences.
- Built a responsive, gamified frontend to improve learner engagement and retention.

EDUCATION

Bachelor of Technology in Computer Science Engineering
Annamacharya Institute of Technology and Sciences
Aug 2019 - Nov 2023

Intermediate (Mathematics, Physics, Chemistry)
Narayana Junior College.
Jun 2017 - Mar 2019

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