



DEEPAK NATARAJAN

SENIOR SOLUTION ARCHITECT



PROFILE

Visionary Solution Architect with 8+ years of excellence in designing enterprise-scale digital ecosystems. Recognized for transforming complex business challenges into elegant technical solutions through modern JavaScript architectures. I am an expert in cloud-native infrastructure optimization and cross-platform application development. Proven track record of technical leadership, having successfully delivered mission-critical platforms used by Fortune 500 clients.

TECHNICAL EXPERTISE

- **Architecture Design:** Microservices, Serverless, Event-driven Architecture, RESTful APIs
- **Frontend Excellence:** React, React Native, Next.js, Redux, Tailwind CSS
- **Backend Development:** Node.js, Scalable APIs, Real-time Processing
- **Database Management:** PostgreSQL, MongoDB, Data Modeling, Performance Optimization
- **Cloud & Infrastructure:** AWS, Terraform, Pulumi, CI/CD Pipelines, High Availability Systems
- **Technical Leadership:** Team Management, Code Reviews, Sprint Planning, Architecture governance

TECHNICAL PROFICIENCY

- **Architecture & Design Patterns:** Domain-Driven Design, Event Sourcing, CQRS, Microservices, API Gateway Patterns, Scalability Patterns
- **Cloud Architecture:** AWS, Infrastructure as Code, High Availability Design, Disaster Management
- **Security & Compliance:** OAuth 2.0/OIDC, JWT, API Security, GDPR/HIPAA Implementation, Threat Modeling, Security by Design
- **Development Ecosystems:** JavaScript/TypeScript, Node.js, React/React Native, Next.js
- **Database & Data Management:** SQL/NoSQL Design Patterns, Sharding, Caching Strategies, Migration Planning
- **Integration & API Design:** REST, GraphQL, gRPC, WebSockets, Event-driven Architecture, Message Brokers



WORK EXPERIENCE

Enterprise Collaboration Platform Architect

2022-PRESENT

Led architectural vision and implementation of a market-disrupting collaborative platform, resulting in:

- Engineered cross-platform UI component library with 98% code reusability between web and mobile.
- Implemented WebSocket-driven real-time collaboration with optimized rendering, supporting 100+ concurrent users.
- Designed cloud infrastructure with 99.99% uptime using AWS and Terraform, cutting deployment time by 70%

Tech Stack: React, React Native, Node.js, PostgreSQL, AWS, Terraform

Infrastructure Management Dashboard Lead

2019-2022

Spearheaded the development of an enterprise-grade infrastructure management solution:

- Architected server-rendered UI platform with Next.js, achieving 40% improvement in SEO performance.
- Designed MongoDB schema and API services supporting 10,000+ daily active users.
- Implemented role-based access control system securing sensitive infrastructure data.
- Led team of 5 senior developers through agile development cycles, exceeding delivery targets by 15%

Tech Stack: Next.js, Node.js, MongoDB, AWS, Terraform

Healthcare IoT Platform Architect

2018-2019

- Pioneered architecture for critical healthcare monitoring applications.
- Designed a real-time vital monitoring system connecting medical IoT devices to cloud infrastructure.
- Integrated multiple hardware devices with mobile interfaces, meeting HIPAA compliance requirements
- Implemented infrastructure-as-code using Pulumi, reducing deployment errors by 85%.

Tech Stack: React Native, Next.js, Pulumi