PRADEEPKUMAR R

Senior Full-Stack Engineer (Node.js • TypeScript • React)

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Professional Summary

Senior Full Stack Engineer with 9+ years of experience building scalable backend services and high-performance frontend applications using TypeScript, Node.js, and React. Strong background in designing secure APIs, containerized workloads, and cloud-native architectures across Azure and AWS environments. Experienced in applying distributed systems principles, security best practices, and modern DevOps workflows to deliver reliable, production-ready platforms.

Technical Skills

Backend & API Development
Node.js, Nest.js, Express.js, REST APIs, API Design, Zod validation, Authentication/Authorization flows, Structured Logging, Distributed Tracing

Databases
PostgreSQL, MySQL, MongoDB, Redis

Identity & Security
Keycloak, OAuth2/OIDC, JWT/JWKS, PKCE, RBAC, CSP, Audit Logging, OWASP Secure Coding

Frontend Technologies
React, Next.js, Redux, React Query, TypeScript, Storybook, Vite, Webpack, TailwindCSS (working knowledge), CSS/SCSS, a11y, i18n, UI Architecture, Scalable Component Systems (Atomic Design)

Cloud & DevOps
AWS: EC2, S3, IAM, VPC, RDS, Networking, Security Best Practices, **Azure:** Azure DevOps, AKS, ACR, Docker, Kubernetes, NGINX Ingress, **CI/CD Pipelines**: Azure DevOps, GitHub Actions, **Observability**: Elasticsearch, Fluentd, Kibana, Prometheus, Grafana, GitOps (working knowledge)

Testing
Jest, React Testing Library, MSW, TDD, Shift-left Testing, Code Reviews, Secure Engineering Practices

Professional Experience

Associate Solution Designer & Senior Software Engineer, Mindgraph Solutions Sdn Bhd

09/2021 – Present
Kuala Lumpur, Malaysia

- Designed and implemented scalable backend APIs using **Node.js, Nest.js, and TypeScript**, enabling secure, reliable, and maintainable service architecture across enterprise applications.
- Built and maintained frontend applications using **React and TypeScript**, focusing on clean component architecture, performance, and user experience.
- Designed and supported **cloud-native service architectures** using **containerization** and core **AWS** and **Azure** services, focusing on scalability, security, and operational reliability.

- Applied AWS networking, compute, and storage patterns to support backend service design and deployment workflows.
- Refactored legacy frontends into **modular, reusable component libraries** using React, React Query, Context API, and TailwindCSS — reducing UI defects by **25%** and improving development velocity.
- Contributed to API contract design, data modeling, and service integration to ensure seamless backend–frontend communication.
- Improved performance through caching strategies, bundle optimization, database query tuning, and code-splitting techniques across the stack.
- Integrated Node.js services with **PostgreSQL, MySQL, and MongoDB**, implementing secure data flows, structured validation, and predictable behavior under load.
- Supported DevOps efforts, including **Docker containerization, CI/CD pipelines, Azure DevOps, GitHub Actions**, and environment-based deployment workflows.
- Integrated products with a robust logging mechanism using Elasticsearch, Beats, and Kibana
- Integrated products with OpenTelemetry for active monitoring using Prometheus and Grafana
- Led cross-functional technical discussions with product managers, designers, and backend engineers to deliver complete end-to-end features.
- Conducted code reviews, mentored engineers, and introduced testing and architectural best practices across teams.
- Experimented with modern frontend tooling and patterns to enhance UI performance and maintainability (React Query, modular service layers, utility-first CSS).
- Drove adoption of **AI-driven engineering workflows,** including automated PR reviews and test generation, reducing manual effort and improving team efficiency.

Consultant - Technology, 04/2020 – 07/2021 | Chennai, India
Virtusa Consulting Services Pvt Ltd
- Developed backend services using Node.js and contributed to full-stack functionality in enterprise banking applications.
- Built responsive frontend modules using **React and TypeScript**, improving UI consistency and system performance across financial dashboards.
- Worked closely with backend teams to integrate REST APIs, refine data flows, and enhance application reliability.
- Participated in API specification design and implementation across full-stack components.
- Ensured code quality through testing with Jest, code reviews, and CI-based validation.
- Collaborated with design and product teams to deliver scalable features aligned with business and compliance requirements.

Frontend & Web Design Roles 07/2016 – 04/2020 | Chennai, India
- Built responsive web interfaces and reusable UI components using HTML, CSS, JavaScript, and early React patterns.
- Contributed to full-stack features with backend API integrations, laying the foundation for modern full-stack development.
- Improved performance and UX across multiple client websites in Telecom, Media, and Digital Services.

Education

Bachelor's Degree in Computer Science and 2012 – 2016 | Tamil Nadu, India
Engineering, C. Abdul Hakeem College of
Engineering & Technology