





# VIJAY PRAJAPATI

## Lead Node.js Engineer | AI-Assisted & Agent-Driven Development

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 Open to opportunities

### PROFESSIONAL SUMMARY

Lead Node.js Engineer with 8+ years of expertise in designing and implementing scalable backend systems, microservices architectures, and cloud-native solutions. Currently pioneering AI-assisted and agent-driven development practices to enhance backend intelligence and automate workflows. Proven track record of leading engineering teams, mentoring developers, and delivering enterprise-grade products that serve millions of users across retail, healthcare, and EdTech domains. Currently at Kmart Australia Limited, I lead backend engineering initiatives, mentor junior developers, and architect solutions that handle high-traffic API workloads. I thrive on solving complex technical challenges, whether it's optimizing database performance, implementing CI/CD pipelines, or designing fault-tolerant distributed systems.

#### Career Highlights

<b>8+</b> Years Experience	<b>20+</b> API's Services	<b>99.9%</b> System Uptime	<b>20+</b> Projects Delivered
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### CORE COMPETENCIES

#### Programming Languages

JavaScript (ES6+)  
TypeScript  
ReactJs  
SQL

#### Backend Frameworks

NodeJs  
ExpressJs  
NestJS  
REST APIs

#### Databases

MongoDB  
PostgreSQL  
MySQL  
Redis

#### Cloud & DevOps

AWS (EC2, ECS, S3, Lambda, SNS, SQS, DynamoDB)  
Eventing(Kafka)  
Docker

#### Architecture & Design

Microservices Architecture  
System Design  
Serverless Computing  
API Design

#### Leadership & Practices

Team Leadership  
Code Review  
Performance Optimization  
Security Best Practices

CI/CD (GitHub Actions,  
Jenkins)

Monitoring & Logging

## PROFESSIONAL EXPERIENCE

### Lead Node.js Engineer

#### Kmart Australia Limited

2022 - Present | Melbourne, Australia (Remote)

Leading backend engineering initiatives for one of Australia's largest retail chains, responsible for designing and implementing scalable microservices that handle millions of transactions daily across e-commerce and in-store systems.

- ▶ Architected and deployed microservices handling 10M+ daily API calls with 99.9% uptime
- ▶ Led API integration projects for inventory management, order processing, and supply chain systems
- ▶ Optimized database queries and caching strategies, reducing API response times by 60%
- ▶ Mentored 5+ junior developers and established comprehensive code review standards
- ▶ Implemented CI/CD pipelines using GitHub Actions, reducing deployment time by 70%
- ▶ Designed fault-tolerant distributed systems for handling peak retail traffic during sales events
- ▶ Collaborated with cross-functional teams to deliver customer-facing features serving millions of users

Node.js

TypeScript

AWS

MongoDB

Redis

Docker

Kubernetes

### Senior Node.js Engineer

#### 1Health (Healthcare Technology)

2017 - 2022 | Bangalore, India

Developed secure healthcare APIs and systems for a digital health platform serving thousands of patients and healthcare providers. Focused on HIPAA compliance, data security, and performance optimization.

- ▶ Built HIPAA-compliant APIs for patient data management and electronic health records (EHR)
- ▶ Improved overall system performance by 45% through strategic caching and query optimization
- ▶ Implemented real-time notification systems for healthcare alerts and appointment reminders
- ▶ Designed secure authentication and authorization mechanisms using JWT and OAuth 2.0
- ▶ Integrated third-party healthcare services, payment gateways, and telemedicine platforms
- ▶ Developed automated testing frameworks achieving 90%+ code coverage
- ▶ Led migration from monolithic to microservices architecture, improving scalability

Node.js

Express.js

MongoDB

PostgreSQL

Redis

AWS Lambda

GraphQL

## Node.js Engineer

### Gingerwebs (EdTech Solutions)

2015 - 2017 | Bangalore, India

Started backend engineering journey by designing and implementing scalable solutions for EdTech platforms. Gained expertise in handling high-concurrency assessment systems and real-time data processing.

- ▶ Developed backend infrastructure for online assessment platform handling 100K+ concurrent users
- ▶ Built real-time exam monitoring and comprehensive anti-cheating systems
- ▶ Implemented automated grading algorithms for various question types and assessment formats
- ▶ Optimized database schemas and indexing strategies for handling large-scale assessment data
- ▶ Created comprehensive API documentation and automated testing frameworks
- ▶ Established monitoring and logging systems for proactive issue detection and resolution

Node.js Express.js MySQL Redis Docker Socket.io

## FEATURED PROJECTS

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### ThinkExam - Online Assessment Platform

#### EdTech Platform | Scale: Millions of Users

Comprehensive online examination and assessment platform designed to handle millions of concurrent users. Built with scalable microservices architecture to support educational institutions worldwide, featuring real-time monitoring, anti-cheating mechanisms, and automated grading systems.

- ▶ Real-time exam monitoring with advanced proctoring capabilities
- ▶ Multi-tenant architecture supporting thousands of institutions
- ▶ Automated grading and comprehensive analytics dashboard
- ▶ Performance optimization handling 100K+ concurrent examinations

Node.js Express.js MongoDB Redis AWS Docker

### PracticePlus - Healthcare Management System

#### Healthcare/Telemedicine Platform

Secure healthcare platform enabling remote consultations, patient management, and prescription handling. Built with HIPAA compliance and end-to-end encryption for sensitive medical data, supporting thousands of healthcare providers.

- ▶ Video consultation integration with secure data transmission
- ▶ Electronic health records (EHR) management system
- ▶ Automated appointment scheduling and prescription management
- ▶ Payment processing integration with healthcare billing standards

Node.js NestJS PostgreSQL GraphQL AWS Lambda

## Enterprise API Suite - Retail Backend Systems

### Microservices Architecture | E-commerce

High-performance API collection and microservices powering retail backends including suppliers, factories, audits, and costing systems. Designed for reliability, scalability, and seamless enterprise integration.

- ▶ Payment gateway integration APIs with fraud detection
- ▶ Inventory management microservices with real-time synchronization
- ▶ User authentication & authorization with role-based access control
- ▶ Analytics and reporting APIs with data visualization capabilities

Node.js

Express.js

MongoDB

Redis

CI/CD

## EDUCATION

### Bachelor of Technology (B.Tech)

Computer Science & Engineering

2012 - 2016

## CERTIFICATIONS

AWS Certified Solutions Architect	2020
Node.js Certified Developer	2016
MongoDB Certified	2016

## ADDITIONAL EXPERTISE

AI-Assisted Development

Agent-Driven Programming

Microservices Architecture

System Design

Performance Optimization

Serverless

Team Leadership

Code Review

API Design

Security Best Practices

Monitoring & Logging