

Vimal raj S

B.Sc. Computer Science - (2015)

Cloud Specialist - Full Stack Lead

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PROFESSIONAL SUMMARY

Senior Cloud Specialist and Full Stack Lead with **8+ years of expertise** in architecting scalable, enterprise-grade applications. Proven track record of leading high-performance engineering teams, implementing robust CI/CD pipelines, and delivering secure, high-volume cloud solutions for major banking clients. Expert in GCP cloud infrastructure, microservices architecture, and enhancing operational security.

Skills :

- **Technical Leadership & System Design:** Lead **Nest.js, Node.js, Next.js & TypeScript** development, driving system architecture, design decisions, code reviews, PR approvals, Git workflows, mentoring, and delivery of scalable enterprise applications.
- **Backend & REST API Engineering:** **8+ years of backend experience** with **Node.js, Nest.js, Express.js & Redis**, developing secure, high-performance **REST APIs and microservices** with authentication, authorization, validation, middleware, exception handling, and third-party integrations.
- **Architecture, DSA & Performance:** Strong expertise in **System Design, Data Structures & Algorithms, Design Patterns, SOLID, modular architecture, distributed systems, scalability, high availability, asynchronous/event-driven architecture, Redis caching, and performance optimization.**
- **GCP Cloud & Observability:** Hands-on experience with **GCP App Engine, Cloud SQL (PostgreSQL), Cloud Storage, Cloud Logging & Cloud Monitoring**, including production deployments, centralized logging, monitoring, troubleshooting, and reliability engineering.
- **Database, Docker & CI/CD:** Proficient in **PostgreSQL & MySQL**, database design, complex SQL, indexing, JSON/JSONB, and query optimization; experienced with **Docker, Jenkins, Bitbucket, Git & CI/CD** for automated build, deployment, and release pipelines.
- **Full-Stack, Python & ONDC:** Experienced in **Next.js** full-stack integration and developing scalable **Python/FastAPI ONDC-compliant services**, implementing asynchronous processing, REST APIs, validation, authentication, business workflows, and ONDC ecosystem integrations.
- **AI & Modern Engineering:** Leverage **Generative AI, AI-assisted development, Hugging Face, LLMs, RAG, Transformers, embeddings, vector search, prompt engineering, tokenization, model training and fine-tuning** to accelerate solution design, development, debugging, optimization, and technical problem-solving.

Experience :

1	Role	Customer Support
	Company	Hapag Lloyd - Cargo Import/Export and Shipping company
	From - To	11/2015 - 05/2018
	Place	Chennai, India
	Responsibilities	- Designed and implemented UI enhancements to streamline cargo import and export processes, ensuring efficient and user-friendly workflows. - Collaborated with clients to gather requirements, troubleshoot UI bugs, and deliver intuitive solutions to enhance the user experience. - Developed and optimized the shipment tracking system, ensuring compliance with international shipping regulations and seamless integration across platforms. - Coordinated with internal teams to debug and resolve front-end and back-end inconsistencies, ensuring accurate shipment documentation and smooth customs clearance. - Effectively communicated with stakeholders, including logistics teams and external agents, to resolve UI and functionality-related issues, improving operational efficiency.
	Technologies & Tools	- Shipping and Logistics Software, Support Tracker - Microsoft Office Suite (Word, Excel, Outlook) - Communication Platforms for Client Engagement
2	Role	Web Developer
	Company	W2B WebTech - Robotics education and research company
	From - To	11/2018 - 12/2019
	Place	Tirunelveli, India
	Responsibilities	Integrated diverse software components, such as libraries, APIs, and third-party tools, to build scalable and cohesive microservices-based systems. - Performed rigorous testing of software components and systems to identify, debug, and resolve issues, ensuring reliability and optimal performance. Created detailed documentation, including technical specifications, user manuals, and API guidelines, to support development and integration efforts. - Collaborated with cross-functional teams, including product managers and DevOps engineers, to seamlessly integrate software with hardware and cloud-based services. - Championed continuous improvement initiatives by

		implementing cutting-edge tools, techniques, and best practices to optimize development processes.
	Technologies & Tools	• Programming Languages: PHP, JavaScript, Node.js • Frameworks: CodeIgniter, Express.js • Front-end: HTML, CSS, JavaScript (with debugging and UI bug resolution) • Development Tools: Git, Postman • Testing Tools: Mocha, Chai (for automated testing) • API Technologies: RESTful APIs, JSON, and third-party API integrations
3	Role	Software Engineer
	Company	Astute Code - Social media marketing company
	From - To	01/2020 - 05/2020
	Place	Nagercoil, India
	Responsibilities	• Developed and maintained software programs for social media marketing purposes. • Utilized Vue.js and Node.js to build efficient and interactive web applications. • Deployed software programs and monitored their performance in real-world scenarios. • Collected and evaluated user feedback to identify areas for improvement and enhance user experience. • Stayed up-to-date with the latest features and updates in software technologies, and ensured the software was updated accordingly.
	Technologies & Tools	• Framework: Laravel 8, Node.js with Express • Programming Languages: PHP, HTML, CSS, JavaScript • Database: MySQL • Development Tools: Git
4	Role	Full Stack Developer
	Company	Ashiantechologies - Software product based company
	From - To	11/2021 - 01/2023
	Place	Tirunelveli, India
	Responsibilities	• Contribute to team and organizational improvements in processes and infrastructure. • Develop high-performance applications using Node.js, Express, Sequelize, MySQL, and EJS. • Write testable, reusable, and efficient code to ensure the scalability and maintainability of the applications. • Collaborate with a team of developers to design and implement innovative solutions. • Participate in code reviews to improve code quality and ensure

		adherence to best practices.
	Technologies & Tools	- Technologies and Tools Used - Programming Languages: Node.js, JavaScript - Framework: Express.js - Database: MySQL - ORM: Sequelize - Templating Engine: EJS - Development Tools: Git
5	Role	Senior Software Developer
	Company	Colakin - Australian-based tech support and research company
	From - To	01/2023 - 06/2023
	Place	Tirunelveli, India - Remote
	Responsibilities	- Collaborated with a team of developers and researchers to provide tech support and research services. - Developed flowcharts, layouts, and documentation to identify project requirements and propose solutions. - Implemented well-designed and testable code to meet project specifications. - Integrated software components into a fully functional software system. - Conducted testing and debugging to ensure the quality and reliability of the software.
	Technologies & Tools	- Programming Languages: Node.js, Express.js, Python, Fast api, - Frameworks: React.js - Cloud Platform: Cloudflare Worker - Deployment: Docker - Development Tools: Git, JIRA, Agile methodologies
5	Role	Cloud Specialist - Full Stack Lead - GCP
	Company	Niveus - service-based IT company specializing in Google Cloud Platform.
	Place	Mangaluru, Karnataka 575001
	From - To	16-Oct-2023 - present
	Project / Client	Chairman app - Aditya Birla Group (mobile app)
	Technologies & Tools	Node.js, Express.js, SSO, Mysql, GitLab CI/CD, GCP (App Engine, Cloud SQL, Cloud Storage), REST APIs, Docker
	Responsibilities	- Conducted thorough code reviews to ensure adherence to coding standards, best practices, and project requirements, while providing Git approvals and feedback for team members. - Managed and oversaw the merging process to maintain a stable, conflict-free codebase in a multi-developer environment.

		- Led the development of RESTful APIs consumed by mobile applications, ensuring secure, scalable, and high-performance endpoints. - Implemented SSO (Single Sign-On) and token-based authentication mechanisms to enforce secure access across the mobile and web platforms. - Deployed Node.js applications on Linux-based VMs, configured services for high availability, and managed rollouts using manual deployment strategies and shell scripts. - Participated in daily scrums, sharing progress updates, identifying blockers, and aligning with sprint goals and timelines. - Collaborated with UI/UX, mobile, and QA teams to ensure seamless integration between backend services and frontend/mobile apps. - Created and maintained technical documentation, including API specs and architecture diagrams, to facilitate development and onboarding. - Worked closely with the client's IT team during release calls to deploy builds, verify production readiness, and address post-deployment issues.
	Project / Client	Birla Opus- Aditya Birla Group (Web)
	Technologies & Tools	Node.js, Express.js, Mysql, Jenkins, GitLab CI/CD, GCP (App Engine, Cloud SQL, Cloud Storage), REST APIs, Docker
	Responsibilities	- Developed and maintained RESTful APIs to support mobile and web applications, ensuring performance and scalability using Node.js and Express.js. - Integrated AI image generation endpoints within the backend to dynamically create images based on user input; handled API calls, response parsing, and error management. - Fetches generated image data from the AI service and served it efficiently to the frontend for display in the user interface. - Implemented token-based authentication to secure endpoints and ensure safe access across mobile and web clients. - Participated in daily standups, collaborated with cross-functional teams (mobile, frontend, and QA), and ensured timely feature delivery. - Conducted code reviews for peer contributions to maintain code quality, readability, and consistency. - Deployed Node.js services on virtual machines (VMs) and performed basic server configuration and monitoring for uptime and availability. - Wrote API documentation and maintained technical design notes for consistent handoffs and cross-team clarity. - Worked closely with the frontend team to support seamless rendering of data and images retrieved via backend APIs.
	Project / Client	ICICI Mutual Funds Loans - ICICI Bank Ltd (Web)
	Technologies & Tools	Backend: Node.js, Express.js (Microservices Architecture), RESTful APIs Authentication & Security: JWT Auth Middleware, AES-256 Data Encryption DevOps & Monitoring: Jenkins (CI/CD), Grafana, Google Cloud

		Operations Suite (formerly Stackdriver) ● Cloud & Infrastructure: Google Cloud Platform (GCP), Cloud SQL, Cloud Storage ● Database: Mysql ● Others: Docker, GitLab CI/CD (version control)
	Responsibilities	● Key Achievements: ○ Optimized backend performance, reducing API response times by ~20% through efficient microservices architecture and caching. ○ Successfully migrated legacy financial workflows to a secure, GCP-native cloud environment, ensuring 99.9% uptime. ● Responsibilities: ○ Led a team of backend developers in architecting secure, scalable Node.js microservices, directly supporting ICICI's digital banking modernization. ○ Implemented JWT-based authentication and AES-256 encryption across all microservices, strengthening data security for critical financial transactions. ○ Orchestrated CI/CD pipelines using Jenkins and GitLab, improving deployment reliability and reducing manual intervention. ○ Collaborated with Infosec teams to validate encryption protocols, ensuring full compliance with banking security standards. ● Mentored junior developers through code reviews and knowledge-sharing sessions, significantly improving code quality and team velocity.
	Project / Client	HDFC - SELF HELP
	Technologies & Tools	Nest.js, Next.js, Postgres, Jenkins, BitBucket, CI/CD, GCP (App Engine, Cloud SQL, Cloud Storage), REST APIs, Docker, Redis
	Responsibilities	● Developed and maintained RESTful APIs to support mobile and web applications, ensuring performance and scalability using Node.js and Express.js. ● Fetched generated image data from the AI service and served it efficiently to the frontend for display in the user interface. ● Implemented token-based authentication to secure endpoints and ensure safe access across mobile and web clients. ● Participated in daily standups, collaborated with cross-functional teams (mobile, frontend, and QA), and ensured timely feature delivery. ● Conducted code reviews for peer contributions to maintain code quality, readability, and consistency. ● Deployed Node.js services on virtual machines (VMs) and performed basic server configuration and monitoring for uptime and availability. ● Wrote API documentation and maintained technical design notes for consistent handoffs and cross-team clarity. ● Worked closely with the frontend team to support seamless rendering of data and images retrieved via backend APIs.

