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 **8.5+ 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 Details

1	**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. ● 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.
	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.
2	***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
3	***Role***	**Full Stack Developer**
	Company	**Ashiantechnologies - 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
4	***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
5	**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
6	**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