Gopinath S

Software Engineer | Web Application Developer

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Professional Summary

Results-driven Software Engineer with 2+ years of experience in CRM/SaaS application development. Expert in Node.js, Vue.js, and MongoDB, with a strong record of optimizing performance, reducing costs, and ensuring data reliability. Skilled at delivering scalable, secure, and efficient web solutions using modern frameworks, caching, and real-time streaming technologies.

Technical Skills

Frontend: Vue.js, JavaScript, Element Plus
Backend: Node.js, Koa.js, Express.js, REST API, gRPC (Node.js/TypeScript), GraphQL, JWT, OAuth 2.0
Database & Caching: MongoDB (Atlas Search, Indexing), Redis
Messaging/Streaming: Confluent Kafka
Version Control: Git, GitHub
Tools: Docker, VS Code, Jira
Other: Agile, SDLC, CI/CD, API Integration, Performance Optimization

Professional Experience

Avow Solutions, Chennai, TN
Software Engineer
Jul 2022 – Present

- **Reduced data loss by 95%** in the finance module by developing an audit logging system using MongoDB Change Stream, improving compliance and data integrity.

- **Decreased average data retrieval time by 60%** by refactoring 20+ slow SQL queries and adding indexes, resulting in faster reporting and real-time analytics.

- **Migrated frontend from Vue 2 to Vue 3**, increasing application speed by 30% and improving maintainability.

- **Upgraded backend servers** from Node.js v14 to v21, enabling advanced features and boosting system performance by 25%.

- **Deployed gRPC server** for JWT authentication, reducing authentication latency by 45% and supporting secure, scalable microservices communication.

- **Integrated MongoDB Atlas Search** with Node.js backend, expediting transaction data retrieval and enabling junior analysts to resolve discrepancies 50% faster.

- **Implemented Atlas Search Indexes** and migrated schemas to AJV, enhancing data validation and reducing runtime errors by 40%.

- **Enhanced efficiency** by implementing Vue TanStack Query for client-side caching and Redis for server-side caching, reducing unnecessary data fetching and improving user experience.

- **Achieved 99.99% audit log uptime** by integrating MongoDB Change Stream with Confluent Kafka, ensuring high availability and reliability for critical data streams.

Software Engineer Trainee

Dec 2022 – Jun 2023

- **Designed and developed** a role-based Employee Management application using Vue.js, Node.js (Express), JWT, and MongoDB, streamlining HR processes for 50+ users.

- **Built a web-based Gmail simulation app** to demonstrate advanced UI/UX and backend integration, improving onboarding and training efficiency.

- **Reduced data loss by 40%** by implementing MongoDB Change Stream for user document logs, enabling real-time data synchronization across customer service platforms.

- **Integrated OAuth 2.0 (Google, Microsoft, Facebook)** via Passport.js for CargoEZ portal, reducing user login time by 60% and enhancing security.

Certifications

- MongoDB Atlas Search,Analyzers in Atlas Search, MongoDB Indexes,Advanced Queries with Atlas Search, Managing Atlas Search Indexes

Education

B.E. Electrical and Electronics Engineering

Sri Krishna College of Technology, Coimbatore, TN (2019–2023)

HSE

Deepa Matriculation School, Mukkudal, TN (2018–2019)