

SIBICHAKRAVARTHI SIVAN

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PROFESSIONAL SUMMARY

Senior Node.js, JavaScript, and TypeScript Engineer with 7+ years of experience building robust, scalable platforms using Express, React, and PostgreSQL. Expert in leading microservices environments, slashing latency with Redis caching, and building reliable async processing systems. Dedicated to engineering automated, fault-tolerant systems that perform at scale.

TECHNICAL SKILLS

- **Languages & Frameworks:** JavaScript (ES6+), TypeScript, Node.js, Express.js, NestJS, React, Next.js, PL/SQL
- **Databases & Caching:** PostgreSQL, Oracle, Redis, Memcached
- **Messaging & Workflow:** Redis Streams, Bull MQ, BPMN, Socket.io, REST API Design
- **DevOps & Tools:** Docker, AWS, Jenkins, CI/CD, Git, Jest
- **Engineering Practices:** Microservices Architecture, Agile/Scrum, API Design, Performance Tuning

PROFESSIONAL EXPERIENCE

Bahwan Cybertek | Senior Software Engineer

Jan 2024 – Present

- Architected a Node.js, Python, and React microservices ecosystem for telecom order capture and provisioning, successfully handling 50,000+ daily requests.
- Optimized application performance in Node.js services, achieving a 25% reduction in server load by implementing Redis caching, message queues (Bull), and asynchronous batch processing.
- Engineered a near real-time usage charging system in Node.js capable of processing 10 million records daily, incorporating complex rating and classification logic.
- Systematized the end-to-end monthly billing lifecycle—from contract execution to invoice generation—reducing the total turnaround time by 50%.
- Implemented parallelized batch PDF generation in Node.js for 100,000+ records, reducing processing time from 24 hours to 6 hours.
- Designed and implemented end-to-end CI/CD pipelines using Jenkins, Docker, and AWS, achieving 99.99% uptime through zero-downtime deployment strategies.

Bahwan Cybertek | Software Engineer

Mar 2022 – Jan 2024

- Architected and developed a greenfield Node.js microservices-based product, leading technical design discussions and high-level system architecture from initial concept to product.
- Designed and built a real-time chatbot application from scratch in Node.js using React Flow for visual workflow orchestration and Socket.io for bidirectional, low-latency communication.
- Engineered seamless integrations with Meta's ecosystem (WhatsApp, Instagram, Facebook Messenger), enabling omnichannel messaging and unified conversation flows via webhook handling.

- Developed complex database architecture by engineering stored procedures, functions, and packages using OOP principles within PL/SQL.
- Contributed to the full SDLC of a high-performance Telecom CRM/CX application using ExtJS and PL/SQL.
- Provided Tier-3 technical support, taking ownership of complex bug fixes and feature enhancements to ensure system stability.

KEY PROJECTS

Telecom Order Capture & Provisioning Platform

- Built with Node.js, Express, and React; supports 50,000+ daily requests with a microservices architecture and Redis-backed caching layer.

Real-Time Omnichannel Chatbot Platform

- Node.js and Socket.io application integrating WhatsApp, Instagram, and Facebook Messenger via webhook handling, with React Flow powering visual conversation-flow design.

High-Volume Usage Charging & Billing System

- Near real-time Node.js charging engine processing 10 million records daily, feeding an automated monthly billing lifecycle from contract execution through invoice generation.

EDUCATION

Bachelor of Engineering in Computer Science (2018)

Sri Eshwar College of Engineering, Coimbatore, TN

CERTIFICATIONS & LANGUAGES

- **Certifications:** JavaScript Basics (SoloLearn), React - The Complete Guide (Udemy)
- **Languages:** English, Tamil