

MAULIK SOMPURA

Senior Software Engineer

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Bhavnagar, Gujarat, India

PROFESSIONAL SUMMARY

Senior Software Engineer with 8+ years of progressive experience in full-stack web development, specializing in Node.js, React.js, and AWS cloud architecture. Demonstrated expertise in leading complex system migrations from monolithic to microservices architectures, resulting in significant performance improvements. Proven ability to develop AI-powered applications using modern technologies including LangChain, CrewAI, and vector embeddings for enterprise clients. Strong background in building scalable backend systems with GraphQL, REST APIs, and comprehensive database management across PostgreSQL, MongoDB, and DynamoDB.

CORE COMPETENCIES

Backend Technologies:

Node.js, Express.js, NestJS, GraphQL, REST APIs, Python, FastAPI, PHP, Laravel, CodeIgniter

Frontend Technologies:

React.js, Next.js, Vue.js, TypeScript, JavaScript, HTML5, CSS3, Responsive Design

Databases & Storage:

PostgreSQL, MongoDB, MySQL, DynamoDB, Redis, Neptune DB, Vector Databases, Minio

Cloud & DevOps:

AWS (EC2, Lambda, API Gateway, CDK), Azure, Docker, CI/CD, Microservices Architecture

AI & Machine Learning:

LangChain, CrewAI, Agentic RAG, Vector Embeddings, GenAI, Ollama, PG Vector

Tools & Frameworks:

Git, Jira, Puppeteer, Stripe, MJML, Electron, Phalcon, wkhtmltopdf

PROFESSIONAL EXPERIENCE

Senior Software Engineer

Codemonk | Remote | October 2021 - Present

- Led architectural transformation of monolithic system to microservices, achieving 50% improvement in scalability and performance for Arré Voice platform using Node.js, GraphQL, and AWS infrastructure with CDK
- Developed GenAI-powered SQL query system for Unilever's FC analysis, implementing CrewAI agentic flow to generate and execute SQL queries from natural language, achieving 95% accuracy on massive database operations
- Built intelligent document comparison agent for Tata Power's Contract Management System using CrewAI and vector embeddings, streamlining contract analysis workflows
- Architected Codemonk Intelligence, a GenAI-powered file storage system with vector embeddings and chat interface using LangChain.js, Minio, and Ollama local models
- Engineered complex data analysis solutions and on-demand PDF report generation for RockED platform using Node.js and Puppeteer, improving reporting efficiency by 40%
- Contributed to RhythmUI framework, enhancing React-based UI component usability and developer experience for internal projects
- Developed BugSnap quality assurance tool, creating Jira-integrated web widget using React and NestJS for internal QA processes
- Delivered Bidding Portal APIs for Renew Energy Global using NestJS and MongoDB, supporting renewable energy procurement processes

Web Developer

Pardy Panda Studios | Vadodara, Gujarat | January 2019 - October 2021

- Developed and deployed Cookt recipe platform, building comprehensive recipe database and cooking assistant using CodeIgniter and Python web scraping, serving 10,000+ recipes

- Enhanced Jhaveri Securities platform, building Security Bond portal and optimizing email templates using MERN stack, improving user engagement by 35%
- Created comprehensive hotel management APIs for Shashi Hotels, integrating reservation systems (Infor), IoT device controls, and payment solutions (Stripe, Venmo, FreedomPay) using MERN stack and Firestore
- Built payment gateway integration for Vendstop digital vending machines, developing Paytm wrapper APIs and custom wallet solutions using Node.js
- Delivered multiple full-stack applications including Tugo meal prep platform, Nutrition Calculator, and Implicit.io using React, Vue.js, and Node.js

PHP Developer

eQuest Solutions | Ahmedabad, Gujarat | October 2018 - January 2019

- Developed web applications using CodeIgniter and Laravel frameworks, focusing on feature implementation and user experience optimization
- Optimized application performance for efficiency and scalability, reducing page load times by 25%

Software Programmer

Helimp Softomation | Vadodara, Gujarat | July 2017 - October 2018

- Developed comprehensive ERP system for PCB manufacturing, integrating CRM, Product, BOM, Sales, Purchase, Inventory, and Shipping modules using Phalcon framework and MySQL
- Built single-page application using MEAN stack for mCare platform, later converted to cross-platform Electron application
- Contributed to open-source project by creating wkhtmltopdf wrapper for Phalcon framework

EDUCATION

Bachelor of Computer Engineering

Government Engineering College, Bhavnagar, Gujarat | 2013 - 2017

KEY PROJECTS

Unilever FC Analysis System | *CrewAI, LangChain, Vector Embeddings, PostgreSQL, PG Vector, Python*

GenAI-powered system for financial analysis with natural language to SQL conversion, achieving 95% query accuracy

Tata Power Contract Management | *CrewAI, LangChain, Vector Embeddings, PG Vector, Python*
Intelligent document comparison and analysis system for contract management workflows

Codemonk Intelligence Platform | *LangChain, NestJS, Vector Embeddings, Ollama, Redis, Minio*
AI-powered file storage and retrieval system with conversational interface

Arré Voice Microservices | *Node.js, GraphQL, AWS, DynamoDB, Neptune DB, API Gateway, Redis*
Scalable voice platform architecture with improved performance and reliability

BugSnap QA Tool | *React.js, RhythmUI, Node.js, Jira APIs*
Integrated quality assurance widget for streamlined bug tracking and reporting

ACHIEVEMENTS

- Led a major architectural migrations resulting in 50% performance improvements and achieved p99 latency
 - Delivered 15+ production applications with 99.9% uptime
 - Reduced API response times by 30% through database optimization
 - Achieved 95% accuracy in GenAI SQL query generation systems
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LANGUAGES

English - Professional Working Proficiency

Gujarati - Native

Hindi - Professional Working Proficiency