

# MAULIK SOMPURA

Senior Software Engineer

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Bhavnagar, Gujarat, India

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## PROFESSIONAL SUMMARY

Results-driven Senior Software Engineer with 8+ years of experience in full-stack web development, specializing in scalable backend architectures and modern frontend frameworks. Proven track record of leading monolithic-to-microservices migrations, improving system performance by 50%, and delivering GenAI solutions with 95% accuracy. Expertise in Node.js, React.js, AWS cloud infrastructure, and emerging AI technologies including RAG systems and vector embeddings.

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## 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

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## 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
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## EDUCATION

### Bachelor of Computer Engineering

Government Engineering College, Bhavnagar, Gujarat | 2013 - 2017

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## 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

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## 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