

SAISH KARAPURKAR

PROFESSIONAL SUMMARY

Senior Software Architect with 8+ years of experience designing and delivering scalable e-commerce, retail, and service-based platforms. Expertise in microservices architecture, distributed systems, cloud infrastructure, and high-volume transactional applications, with a proven track record of leading cross-functional engineering teams, driving technical strategy, mentoring developers, and delivering complex projects from conception to production. Specialized in building **data-driven** and **AI-powered solutions**, including **recommendation systems**, **vector search platforms**, **machine learning pipelines**, and **Agentic AI** applications utilizing LLMs, LangChain, and LangGraph. Strong background in **Laravel, JavaScript, Python, cloud technologies, DevOps, and modern software architecture practices**, with a focus on scalability, reliability, performance, and measurable business impact.

WORK HISTORY

Senior Software Architect, 2020 - Current
Omnigreen, Goa, India (Remote)

- Architected and delivered **large-scale microservice ecosystems** for **e-commerce** and **retail** platforms, **supporting hundreds of thousands of user interactions**, high-volume transactional workloads, third-party integrations, and business-critical services while ensuring scalability, reliability, and high availability. Key initiatives included a **Weedmaps integration** that facilitated over **\$975K in annual revenue** and customer communication platforms powered by **Twilio and OneSignal** that processed over **4.8 million notifications and messages annually**.
- Architected and delivered an **AI-powered Recommendation Platform** utilizing **Machine Learning, TensorFlow Recommender, Vector Embeddings, FAISS/ANN Search, ONNX Ranking Models, Redis, Airflow, and MLflow**, driving a **40% increase in marketing campaign engagement**, improving product discovery, and **increasing customer interaction with previously unseen products**.
- Designed and implemented an **AI-powered Reasoning Engine** that analyzes user preferences, behavioral signals, product attributes, and business rules to generate explainable recommendations, **contributing to a 15-20% reduction in bounce rates and increased user engagement across personalized experiences**.



Goa, GA 403707



+91 9850670654



ssksaish12@gmail.com



Https://heysai.sh



Https://www.linkedin.com/in/saish-karapurkar-ab502

SKILLS

- Programming Languages:**
PHP, JavaScript, Python, SQL
- Frameworks & Libraries:**
Laravel, Lumen, Phalcon, Express.js, React.js, FastAPI, LangChain, LangGraph, Tensorflow, Laravel Vapor
- Databases:**
MySQL, PostgreSQL, MongoDB, Redis
- Cloud & DevOps:**
AWS EC2, AWS SIH, Lambda, Docker, Nginx, Linux
- Data & Messaging:**
Kafka, Debezium, CDC Pipelines, REST APIs, Webhooks
- Machine Learning & AI:**
TensorFlow Recommender's (TFRS), FAISS, Vector Search, Embeddings, Recommendation Systems, Retrieval-Augmented Generation (RAG), Agentic AI, LLM Applications, ONNX, MLflow, Airflow
- Architecture & Engineering:**
Microservices Architecture, Distributed Systems, Event-Driven Architecture, System Design, Scalability, Performance Optimization, Technical Leadership, Solution Architecture

PERSONAL DETAILS

Other: EMAIL saishsk@heysai.sh

- Designed and implemented data platforms and **event-driven architectures** leveraging **CDC pipelines, Kafka, Redis, MySQL, PostgreSQL**, and cloud-native services, **processing hundreds of thousands of events and data records daily to support near real-time analytics**, operational workloads, and business-critical decision making.
- **Managed and mentored multiple engineering teams** across concurrent projects, driving technical excellence, architectural consistency, and successful project delivery.
- Collaborated directly with business stakeholders, product teams, and executive leadership to translate business requirements into scalable technical solutions and strategic technology roadmaps.

Full Stack Developer, 05/2020 - 12/2020

Archimedes, New York, United States (Remote)

- Worked on project management tools and services using technologies like **React, Next Js, Node, and Laravel**. Worked remotely with team members from multiple different countries.
- Developed and maintained responsive web applications using JavaScript, Node.js, and React frameworks.

Full Stack Developer, 06/2019 - 05/2020

JBK Technologies Pvt. Ltd., Pune, India

- Worked on e-commerce platforms using technologies like **React and PHP (Phalcon Framework)**
- Projects - Bidsquare - www.bidsquare.com, Showroom2220 - www.shop2220.com

HOBBIES

Exploring distant lands, Getting lost in a good book, Playing games, Listening to podcast

EDUCATION

Masters of Computer Applications, 01/2018

Dr. D.Y Patil College - Pune, India

Bachelor of Computer Applications, 01/2014

M.E.S College - Vasco Da Gama, India

AWARDS

- **2019 Best Performer** - JBK Technologies Awarded best performer for 3 quarters
- **2022 Best Standout Performer** - Omnigreen Awarded best standout performer from 2021 to 2022