Sairamnath (Sai) Krishnan

(240) 906-2323 | ftjsearch@gmail.com | www.linkedin.com/in/sairamnathk | sairam960.github.io/portfolio-SDE

EDUCATION

Master of Science, Information Systems

Dec 2024

University of Maryland

Coursework: Data Processing and Analysis in Python, Managing Digital Business Market, Project Management, Digital Transformation in Business, Harnessing AI for Business, Causal Inference and A/B Testing, Data - Models and Decision using R.

Bachelor of Technology, Information Technology

May 2021

Anna University

Coursework: Programming and Data Structures, Operating systems, Computer Organization and Architecture, Paradigms of Algorithm Design, Software Engineering Methodologies, Database Management Systems, Computer Networks.

SKILLS

Programming Languages: Python, Java, TypeScript/JavaScript, C++, PL/SQL, R.

Front End: React Native, React.js, Tailwind, HTML/CSS.

Back End & APIs: Java, Node.js (Express), REST, GraphQL, WebSockets, FastAPI, Fastify.

Data & Cloud: SQL, Snowflake, Hadoop, Kafka, PostgreSQL, MongoDB (NoSQL), AWS (S3, ECS, Lambda, Sagemaker).

GenAI / LLM Ops: OpenAI API, OpenAI Embeddings, LiteLLM router, RAG, prompt design, LLM Fine-tuning.

DevOps / CI-CD: Docker, GitHub Actions, dbt, PowerBI, Junit, Grafana.

EXPERIENCE

YourPassion1st Software Engineer Oak Park, IL, USA

Feb 2025 - Present

- · Led end-to-end infrastructure migration from a legacy private server to AWS, leveraging S3 for scalable storage and ECS for containerized service deployment.
- Modernized static website using Next.js and React.js, improving onboarding flow and reducing average page load time by 60%.

Myma.AI

Nashville, TN, USA

Founding Software Engineer

Jan 2024 - Dec 2024

- · Engineered OpenAI powered chat agents to automate customer complaint and room service process, improving complaint turnaroundtime by 30x and boosting customer satisfaction by 30%.
- Engineered multiple MCP servers and hooked in relevant API's for dynamic context based chat responses and reducing hallucinations.

University of Maryland

College Park, MD, USA Jan 2024 - Dec 2024

Consultant, Software Developer

- Automated inventory counting with a React application, saved store team 7+ hours/week.
- Built an analytics tool to visualize \$1M+ in annual inventory data, cutting procurement processing time by 30%.
- Designed ETL pipelines to calculate operational costs from Grubhub sales data, reducing operational costs by 47% during summer.

LTIMindtree

Chennai, India Software Engineer Jun 2021 - Jul 2023

 Architected an OpenTelemetry-based observability and diagnostics platform for cloud-native microservices, enabling real-time distributed tracing and anomaly detection, reducing MTTR by 25%.

PROJECTS

AI Admissions Assistant

- · Built a RAG chatbot with LangChain, OpenAI, and FAISS to guide students through master's admissions, combining intelligent retrieval and conversational memory for a highly relevant, user-friendly experience.
- Integrated LangChain's ConversationalRetrievalChain and memory buffers to support multi-turn conversations, ensuring continuity, and deeper personalization for users exploring admission pathways.

E-commerce Platform Analytics using Pyspark

- Built a distributed data pipeline in PySpark and HDFS to ingest, clean, and analyze e-commerce data from multiple sources, reducing latency by 40%.
- Designed a collaborative filtering recommendation system with 82% precision and 0.85 RMSE, increasing average cart size by 15%.

Real-Time Attention Span Tracking in Online Education (IEEE || GitHub)

- Developed an end-to-end attention span detection system using CNNs and OpenCV with real-time webcam inference and GUI feedback, simulating AI-driven human attention monitoring via PyQt GUI (Published in IEEE at MIT URTC 2020).
- Trained a Convolutional Neural Network on labeled facial behavior data, optimizing for focused vs. distracted state classification, showcasing ability to translate behavioral cues into data signals.