Mugilan S

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github.com/mugilansakthivel | linkedin.com/in/mugilansakthivel | portfolio/mugilansakthivel

Skills

Languages: C++,, Python, JavaScript, SQL, Java, HTML, CSS

Technologies & Tools: MERN Stack, Genkit, Tailwind CSS, LangChain, LangGraph, DeepAgent, REST APIs, Nodemailer, Redis, Clerk, Google Cloud, AWS, Transformers.js, Cloudinary, MongoDB, Mongoose, Prisma, Supabase, PostgreSQL, GitHub, GitHub Actions, Docker, Next.js, Midjourney, Flex (image generation).

Work Experience

Kalvium Labs, Bangalore   Apr 2025 - Present

Software Product Engineer

- Built and deployed **10+ AI agents** that became the core engine for client-facing products and internal automation tools.
- Designed, containerized, and deployed applications using **Docker + Google Cloud Run**, improving scalability and reducing infrastructure overhead.
- Cut LLM token costs through **method-level optimization and efficient prompt engineering**, reducing recurring expenses.
- Developed a **video audit agent** that reviews sales calls in under **10 minutes** and delivers clear, actionable insights for improving conversion rates.
- Led and trained **3+ teams**, managing end-to-end client communication and ensuring smooth project execution across **5+ parallel projects**.
- Contributed to business growth by generating **30+ gold leads** and **50+ hot leads** through active product involvement and client interactions.
- **Tech Stack**: Node.js, Express.js, Genkit, Google Cloud Run, Cloud Task, GitHub Actions, Docker

Education

Kalvium Coimbatore   Aug 2023 - Jun 2027

B.Tech. in Software Product Engineering

Relevant Coursework: Object Oriented Programming, Databases, Discrete Maths, Data Structures and Algorithms, Operating Systems, Full stack development, System Design.

University of Mysore online   Jun 2024 - Jun 2027

Bachelor of Computer application, Computer Science

Relevant Coursework: Data Structures, Algorithms, Operating Systems, Database Management Systems (DBMS), Object-Oriented Programming (C++), Software Engineering, Computer Architecture, Digital Electronics, Discrete Mathematics, C Programming.

Project Work

- **Scout AI (2025):** Developed a web app for AI-driven hiring—an agent that scrapes LinkedIn, processes candidates, avoids duplicates, outreaches, conducts background research, and returns a curated list with profiles. Used scraping tools, agentic architecture (Genkit), PostgreSQL, Prisma, React (Vite), Node.js, Express, Gemini LLM, and deployed with Render.com. **Github Link**
- **Screen (2025):** An AI auditing agent that analyzes sales and support call recordings, answers audit questions, and gives improvement insights. Backend built on **AWS + Node.js**, frontend with **Next.js**, DB on **Supabase**, frontend deployed on Vercel. **Github Link**
- **Q space(2025):** AI application for students that analyzes lesson content, asks questions, and provides individualized feedback on strengths and areas for improvement. Utilized LangChain, PostgreSQL, React (Vite), Node.js, Express,

Prisma, Gemini LLM, deployed on Render.com. **Github Link**
- **Data Motion AI(2024):** AI-powered application that generates infographic videos based on user input. Built using LangChain, React (Vite), Node.js, Express, PostgreSQL, Docker, AWS, Prisma, Remotion, and Gemini LLM. **Github Link**
- **Flern AI(2024):** A fun, interactive learning platform simplifying complex concepts with engaging quizzes and personalized feedback. Built with MERN stack, LangChain, and Gemini API, making learning accessible and enjoyable. **Github Link**

Awards and Achievements

- **Introduction to Generative AI Learning Path**: Completed a hands-on program covering foundational AI concepts and practical Generative AI applications..
- **Mentorship:** Guided over 100 students in making informed career choices.
- **Kalvium CampusLeet Winner:** Won the coding challenge by solving 3 out of 4 problems.