

# SAHAYA MUTHUKANI GNANADURAI

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## PROFILE

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Full-stack developer with a growing backend focus, experienced building REST APIs, data processing pipelines, and AI-powered integrations (RAG, LLMs). Comfortable parsing, transforming, and validating data from heterogeneous sources — APIs, JSON, CSV — and shipping the React front ends that put that data in front of users. Fast learner who picks up new tools quickly (currently deepening TypeScript and AWS serverless skills), autonomous, detail-oriented, and collaborative across client- and product-facing teams. Looking to bring that energy to the import-tooling team at Conference Compass.

## TECHNICAL SKILLS

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**Backend & APIs:** Node.js, REST API design & integration, Python, SQL, WebSockets (familiar)

**Data Pipelines:** Parsing & transforming heterogeneous data (JSON, CSV, XML, API feeds), validation logic, end-to-end ingestion pipelines

**Frontend:** React, JavaScript (ES6+), UI/UX design

**AI & Data:** LLMs, RAG architecture, vector embeddings, semantic search, AI-assisted coding (Claude, GPT APIs)

**Cloud & Tooling:** Git, Docker, Agile, automated testing; learning AWS (Lambda, DynamoDB, S3) and TypeScript

**Soft Skills:** Fast learner, autonomous remote worker, cross-functional collaborator, strong code-quality focus

## PROJECTS

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### Multi-LLM RAG Chatbot — React, Node.js, Python

- Built a full-stack AI chatbot handling document ingestion (PDFs, text, reports) and natural-language queries end to end, from upload through parsing to response.
- Integrated multiple LLM provider APIs for parallel response generation behind a single REST API layer.
- Designed the React UI end-to-end, letting users compare and rate AI answers side by side.

### RAG-Based Document Q&A Pipeline — Python, Vector DB

- Built a multi-stage data processing pipeline: text chunking, vector embeddings, semantic search, and LLM response generation.
- Implemented the system end-to-end from data ingestion to context-aware answers — the same pattern used in modern AI-driven data integration and configurator tools.

### Process Automations & AI Experiments — Python, Claude & GPT APIs

- Built scripts and automations that parse, transform, and process data using Claude, GPT APIs, and custom Python pipelines, speeding up repetitive workflows.

### Mini Projects — React, JavaScript, API Integration

- Weather Application, Greenden (plant-selling website), Movie App, and e-commerce clones (Udemy, Apple) — focused on frontend builds and third-party API integration.

## EDUCATION

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### M.Sc. Data Science — University of Naples Federico II

Expected Dec 2026

Coursework: Machine Learning, Deep Learning, Data Engineering, Statistical Modelling

### B.E. Computer Science — Loyola Institute of Technology and Science, India

May 2016

## CERTIFICATIONS

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- iOS Developer — Apple Developer Academy, Naples
- Full-Stack MERN Developer — Error Makes Clever Academy