

# SUGAVANESH MURUGESAN

## Software Developer Software Engineer | AI Native Applications | AWS Certified

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### SKILLS

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- **Cloud & Devops:** AWS, Azure, Docker, Kubernetes, Terraform, Pulumi
- **Frameworks & Paradigms:** Spring Boot, ASP.NET, Ruby on Rails, Express, **Reactive Programming** (Project Reactor, Webflux)
- **Programming Languages:** Java, C#, Go, Python, JavaScript, SQL
- RAG, LangChain, PineCone and Fine-tuning & Embeddings

### PROFESSIONAL EXPERIENCE

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#### PRESIDIO

Chennai, India

##### Associate Engineer

From June-2024

- Worked on AWS to set up and architect better infrastructure for microservice & data intensive applications.
- Developed AI agents to automate migration tasks via fine-tuning & embeddings.
- Developed Python automation to enhance observability for AWS MGN migrations and cutover monitoring.
- Built tools in .NET, React, and Python to improve internal workflows and deployment automation.

#### FOURKITES

Chennai, India

##### Software Developer Intern

Jul 2023-Mar 2024

- Built a new export microservice in Spring Boot that reduced generation time from 15 minutes (.xlsx) to near-instant (.csv) downloads. This significantly improved user experience by reducing delays and separating concerns from the legacy system.
- Integrated with Apache Airflow ETL pipelines, querying Snowflake instead of 3 separate Postgres instances.
- Also contributed to backend APIs and Kubernetes workload migration from AWS to Azure.

### PROJECTS

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#### LIFEFLOW [github.com/sugan0tech/capstone]

Aug 2024-Oct 2024

- An intelligent software assistant for blood banking workflows. Well orchestrated modular monolith application written in ASP.net & react.
- Built exclusively with EntityFramework & MS SQL server

#### AI-ASSIST RANKING SYSTEM

Jan 2023-Mar 2023

- Designed and implemented a ranking engine powered by LLMs with Retrieval-Augmented Generation (RAG).
- Used vector embeddings and similarity search for information retrieval. Integrated Python (LangChain, FAISS) with a Flask API to serve ranked outputs.

### EDUCATION

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#### SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY

Coimbatore, India

B.E. in Computer Science CGPA 8.5

Nov 2020-May 2024