

# SOURABH LIGADE

Pune, India

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## Professional Summary

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Results-driven Software Engineer with 3+ years of experience building scalable, cloud-native systems using Python and modern backend technologies. Experience designing and evaluating LLM-powered applications, including RAG pipelines, data validation layers, and context-aware workflows to improve correctness and reliability. Strong foundation in APIs, distributed systems, and debugging real-world failures, with a focus on building robust, testable AI systems and agentic workflows.

## Technical Skills

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**Languages:** Python, TypeScript, JavaScript, SQL, PostgreSQL

**Frameworks & APIs:** FastAPI, Django, Flask, REST APIs, gRPC (basic), OpenCV, Pandas, NumPy

**AI / ML:** NLP, Generative AI, LLM Applications, Prompt Engineering, Retrieval-Augmented Generation

**Agentic AI & Data Systems:** Agent-based workflows, Vector Databases, Context-aware systems, Data Pipelines

**Cloud & DevOps:** AWS, GCP, Docker, Kubernetes (basic), Git, GitHub

**Distributed Systems:** Event-driven architecture (Kafka - basic), Microservices, System Design fundamentals

**Visualization:** Matplotlib, Streamlit, Data Visualization

## Experience

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### Jarvislabs

July 2023 - Present

*Software Developer*

*Coimbatore*

- Designed and maintained RAG pipelines (Python, SQL) with multi-source ingestion, implementing validation, deduplication, and consistency checks to improve correctness and reduce hallucination risk in AI outputs.
- Built AI-driven applications (React, Next.js) integrating LLM capabilities, optimizing response latency and improving user-facing reliability through structured prompt design and output validation.
- Developed scalable ETL and data quality pipelines with monitoring and anomaly detection, enabling reliable downstream model evaluation across diverse and noisy datasets.
- Worked across cloud environments (AWS/GCP) to build modular, API-driven systems, debugging real-world failures and improving system robustness under production constraints.

## Projects

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### Shiptemos.com | Python, React

Feb 2026

- Built an automated pipeline that generates end-to-end demo videos from GitHub PRs by crawling live staging environments using Playwright, simulating real-world user behavior.
- Designed a two-phase LLM system (Azure OpenAI, Python) to extract UI intent from PR diffs and generate executable browser actions, with contract-based validation to catch hallucinations and logical errors.
- Developed a robust execution layer with ref-grounded element selection, terminal state verification, and edge-case handling for dynamic UI conditions.
- Instrumented latency and success-rate metrics, improving reliability of generated flows and enabling scalable evaluation of LLM outputs across diverse scenarios.

### AlgoHeads.com | Python, React, AWS, PostgreSQL

July 2025

- Built a job referral platform that automatically scans job listings and matches them with users' LinkedIn connections, enabling direct "job → connection → referral" pathways with 100% match accuracy and active user connections.
- Developed a high-performance RESTful API backend using FastAPI with async/await patterns, Google Authentication, and Pydantic data validation, reducing API response times by 40% compared to traditional synchronous frameworks.
- Developed data ingestion pipelines in Python to extract and transform job listings from multiple sources, storing the processed data in a structured PostgreSQL schema.
- Built cloud-native microservices using Python, FastAPI, PostgreSQL, and AWS (S3, Lambda), aligning with scalable, RESTful, and audit-compliant data workflows.

## Education

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### Pune University

*Bachelor of Science in Statistics*

May 2022

*Pune, India*