

Kanishkar K

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ABOUT

Software Engineer with 3+ years of experience building data pipelines, analytical dashboards, and backend systems for operational and analytical use cases. Skilled in Python, Javascript, PostgreSQL, Retool with a strong focus on performance and reliability. Passionate about solving real-world problems through technology and continuously learning.

EDUCATION

SRM INSTITUTE OF SCIENCE AND TECHNOLOGY

Chennai, India

Bachelor of Technology

May 2022

Major in Computer Science; Specialization in Artificial Intelligence, and Machine Learning.

Cumulative GPA: 9.82/10

WORK EXPERIENCE

Foundation AI

Hyderabad, India

Software Engineer

Sep 2024 – Present

- Designed and maintained dashboards and automated workflows using **Python, FastAPI, PostgreSQL, and Retool** to support client onboarding and operational analytics, reducing onboarding time by over **80%**.
- Built **data validation and analytics dashboards** to analyze model outputs, track performance metrics, and support continuous improvement of production systems.
- Worked with cross-functional teams to design and deliver internal tools, while mentoring two engineers in developing scalable solutions using **FastAPI, React.js, and Retool**.

Nova Benefits Bangalore, India

May 2022 – Sep 2024

Solutions Engineer

- Built backend services leveraging **Generative AI** to process client conversations across multiple channels (Email, Slack, WhatsApp, Google Meet) and produce actionable summaries and feedback for executives.
- Developed a **Node.js**-based data processing dashboard integrated with **Retool** to automate insurance and employee data validation, client communication, and reporting workflows, reducing processing time by **5 days**.
- Built and deployed **WhatsApp** and **email-based automation workflows** to streamline client communication processes, improving engagement rates by **20%**.
- Developed **custom onboarding workflows** by connecting backend logic with dynamic frontend components in **Retool**, improving usability and driving a **15%** increase in client retention.
- Developed **data pipelines** integrating **Google Forms, Tally, and Webflow** sources into centralized dashboards, improving visibility and streamlining lead tracking workflows.
- Developed **Python-based ETL pipelines** using **Pandas and NumPy** to extract, transform, and load data from client websites, Zoho CRM, and Google Sheets into analytical dashboards, enhancing operational visibility and workflow efficiency.

PROJECTS

Knowledge Base Assistant

July 2025

Developed an **AI-powered knowledge assistant** integrating **LangChain, OpenAI API, and Retool**, enabling employees to query organizational data from **Google Drive, Jira, and Confluence** through a unified interface.

Immigrant Housing Finder

Jan 2022

Developed a **data-driven recommendation system** using the **Foursquare API** to analyze geolocation data and match accommodation options with user-defined preferences. Implemented with **Streamlit, Pandas, and Matplotlib**.

Publication - Deeply Supervised Video Violence Detection

Feb 2022

"Deeply Supervised Practical Implementation of Violence Detection from Videos for Maximising Performance" — proposed a low-complexity approach using pre-trained deep neural networks to efficiently detect and classify violent actions in surveillance footage.

SKILLS

Languages & Frameworks: JavaScript (NodeJS, ReactJS), Python (FastAPI, Django, Streamlit, TensorFlow, Scikit-learn, Pandas, NumPy, Matplotlib), C, C++

Databases: PostgreSQL, MongoDB

Tools: AWS, Docker, Git, GitHub, Postman, Retool, N8N, Zapier, Airtable, Apps Script

APIs: REST, GraphQL