

# Yash Kantharia

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Solutions Architect specializing in deploying complex integrations within client environments. Expert in bridging product engineering and customer success by solo-architecting cloud infrastructure, debugging production code, and building custom integrations that drive adoption and secure strategic deals.

## SKILLS

**Core Engineering:** Python, SQL (Advanced), Java, JavaScript, TypeScript, Shell Scripting, Data Structures & Algorithms.

**Enterprise Integration:** RESTful APIs, Webhooks, SDK Integration, Authentication (OAuth 2.0, SAML, JWT/SSO), Postman.

**AI & Machine Learning:** LLM Fine-Tuning, Semantic Search, Context-Aware Retrieval, RAG, Agent Workflows, Embeddings, Vector Databases (ChromaDB), Machine Learning, Model Evaluation, LangChain, OpenAI API, Vertex AI, Tensorflow.

**Cloud & Infrastructure:** AWS (Lambda, API Gateway, EC2, S3), Azure, GCP, Docker, Kubernetes, Linux/Unix.

**Data Engineering:** Snowflake, Databricks, BigQuery, Airflow, DBT, ETL/ELT Pipelines, Pandas, NumPy.

**Security & Compliance:** IAM (Identity Access Management), GDPR, CCPA, Data Privacy Standards.

## WORK EXPERIENCE

### Data Engineer Academy, New York, NY

November 2024 - Present

*EdTech platform delivering industry-aligned curriculum and projects in Data Engineering, Analytics, and Artificial Intelligence.*

#### Data Engineer

- **Systems Integration & Automation:** Engineered automated data synchronization workflows by integrating **REST APIs** for **Slack, Totango, and Close CRM**. Built bulk-action tools to resolve data discrepancies and ensure consistency across the SaaS ecosystem.
- **Technical Coaching:** Deliver advanced curriculum on **Data Analysis, ETL pipelines, Cloud Architecture (AWS/Azure/GCP), System Design, and AI/LLM Fine-tuning** to aspiring data professionals.
- **Debugging:** Lead live troubleshooting and coaching sessions for **Data Models, Python scripts, Analytical Dashboards, and Data Pipelines**, sharpening students' ability to diagnose and fix code in real-time, and resulting in a 90% student project completion rate.

### Filmy AI, New York, NY

August 2024 - December 2025

*Pre-seed startup building an AI-powered talent portal catered to the film and entertainment industry*

#### Data Scientist

- **Solo Cloud Architecture:** Operated as the founding engineer, architecting and managing the end-to-end cloud infrastructure on AWS (EC2, Lambda, RDS, S3) to deploy a scalable talent portal.
- **AI Product Development:** Designed a job matching system using **RAG** and context vectors (Gemma Embeddings), improving search accuracy by 40%.
- **Technical Leadership:** Trained and led junior engineers on NLP, LLM fine-tuning, and vector database implementation (ChromaDB).

### Fractal, Mumbai, India

August 2021 - August 2022

*Worked with Crux Intelligence, an NLP-powered analytics platform by Fractal, a global AI and data solutions provider.*

#### Senior Customer Solutions Architect / Data Engineer

- **Embedded Engineering:** Deployed and managed data pipelines running directly **within client environments**, pushing processed data to the Crux backend with 98% accuracy.
- **Pipeline Optimization:** Architected custom ETL workflows using Python, SQL, Azure, and Airflow; optimized SQL procedures to reduce process execution time by 45%.
- **Customer Success & Expansion:** Orchestrated analytical dashboards for Finance and CPG clients, boosting platform usage to 97%. Leveraged technical success to secure a **\$120K deal** and a 3-year contract extension.
- **Cross-Functional Collaboration:** Gathered client requirements and mapped use cases to business KPIs, serving as the technical bridge between client stakeholders and internal engineering.

### CleverTap, Mumbai, India

July 2019 - August 2021

*A mobile analytics, customer retention, and multi-channel engagement Ad Tech platform.*

#### Senior Customer Success Engineer

- **Product Innovation:** Identified a critical client need for accurate uninstall tracking. Architected and led a POC using **AWS Lambda, SQS, API Gateway, and Firebase Cloud Functions**. This solution was subsequently productized, making CleverTap the first in the industry to track Android uninstalls via Firebase Analytics rather than silent push notifications.
- **Client-Side Debugging:** Embedded with client development teams to debug complex Android/iOS integration issues. Wrote custom code to patch client-side modules (e.g., notification display logic) when standard SDK implementation faced blockers.
- **High-Stakes Integrations:** Onboarded 80+ enterprise clients, managing cross-platform SDK integrations (Android, iOS, React Native) and designing robust API workflows with retry mechanisms for scale.
- **Revenue Impact:** Closed a **\$150K deal** by assisting in engineering a custom SDK integration solution to resolve critical Android X and Unity compatibility challenges during the pre-sales process.
- **Operational Automation:** Automated root cause analysis for data discrepancies using Python and SQL, reducing resolution time by 20%.

## EDUCATION

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Pace University, New York, NY - Master of Science (**M.S.**) in Computer Science

University of Mumbai, Mumbai, India - Bachelor of Engineering (**B. Eng.**) in Information Technology

## PUBLICATION

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### Success Prediction using Random Forest, CatBoost, XGBoost, and AdaBoost for Kickstarter Campaigns

August 2019

Link: <https://ieeexplore.ieee.org/document/8819828>

## PROJECTS (More projects available on [GitHub](#))

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### Multi-Agent AI Browser | Python, Electron, Google Gemini, Claude, Antigravity, Selenium

- Built a privacy-first Electron/Chromium browser using AI-assisted rapid prototyping, implementing a local multi-agent AI architecture with on-device models served via Ollama (Llava and Llama 3 for vision/reasoning, Qwen2.5 Coder for code generation), designed using Gemini and Claude in Antigravity IDE, Selenium-based autonomous browsing, and a Tailwind CSS resource-monitoring dashboard, ensuring zero data exfiltration and no API costs.

### Real-time Uninstall Tracking for Android Applications | Java, Firebase Analytics, Node.js, REST APIs, Android, CleverTap

- Integrated a Java-based Android app with Firebase Cloud Functions, REST APIs, CleverTap SDK, and Firebase Analytics SDK for real-time uninstall tracking, achieving nearly 100% accuracy and eliminating reliance on unreliable silent push notifications.

### Stella Chatbot | Python, Google AI Studio, Vertex AI, StreamLit

- Fabricated an LLM-powered chatbot using Python, StreamLit, and Gemini API to assist users with career guidance and tailoring resumes.

### Fine-tuning LLM for English-to-French Translation | Python, Sloth, Gemma 2b, PyTorch, Seq2Seq, LORA, Pandas

- Enhanced English to French sentence translation quality using the Gemma 2b Large Language Model with Unsloth, achieving a 40% improvement in BLEU score over a baseline Seq2Seq model.

### Data Pipeline Automation | Python, SQL, Dremio, Azure Blob Storage, REST APIs, Pandas, Numpy

- Implemented Python scripts to automate periodic data extraction from a private network's SQL database, executing complex calculations, formatting data into CSV and Parquet files, uploading to Azure Blob Storage, and triggering an HTTP API to refresh data in Dremio.

### WebScraper API | Python, Selenium, Flask, BeautifulSoup, HTML, DOM, Pandas

- Built a Flask API with Selenium, Beautiful Soup, Gensim, and basic authentication for capturing metadata, icons, contact details, a screenshot of the home page, and a website summary into a CSV file.