

# Skandana Gowda

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## EDUCATION

**The George Washington University**  
**Master of Science in Computer Science**

GPA: 3.80/4.00 | SEAS Merit Award

**Coursework:** Machine Learning, Big Data and Analytics, Cloud Computing, Neural Networks and Deep Learning, Database Management Systems, Data Management Systems for Data Analytics, Design and Analysis of Algorithms

**Washington, D.C. USA**  
**Aug 2023 – May 2025**

**Dayananda Sagar Institutions**  
**Bachelor of Engineering in Computer Science**

**Coursework:** Data Structures and Applications, Object Oriented Concepts, Data Mining and Data Warehousing, User Interface Design

**Bangalore, India**  
**Aug 2018 – Jul 2022**

## TECHNICAL SKILLS

- Programming and Scripting:** Python, SQL, Java, C++, Bash, R
- Data Engineering and Big Data:** Apache Airflow, dbt, Spark, Hadoop, Pandas, NumPy, Kafka (familiar), Apache Flink (familiar)
- Cloud, DevOps, and Databases:** AWS (Lambda, S3, Glue, Athena, SES, EventBridge, EC2, IAM, CloudWatch), Docker, Kubernetes (familiar), Jenkins, Git, Github, Bitbucket, Linux, PostgreSQL, MySQL, MongoDB
- AI, ETL, and Analytics:** Scikit-learn, TensorFlow, PyTorch, LangChain, FAISS, OpenAI API, FastAPI, Tableau, Metabase

## WORK EXPERIENCE

**Software Engineer I**

**Bangalore, India**  
**Jul 2022 – Jul 2023**

Teistream

- Directed backend development for PRISM, improving data pipeline scalability and reducing system latency by 30% across 100+ post-production teams.
- Developed and deployed the External Reference App using C++, Docker, and REST APIs, automating configuration workflows and boosting onboarding satisfaction by 15%.
- Enhanced CI/CD pipelines with Jenkins and Bitbucket, reducing deployment time by 25% and accelerating integration across Agile sprints.
- Utilized Python for QA automation and Postman for API validation of 20+ endpoints, ensuring 100% pre-deployment test coverage.

**Full Stack Developer Intern**

**Bangalore, India**  
**Sep 2021 – Oct 2021**

Tequed Labs

- Built and managed a full-stack web application using PHP, JavaScript, and MySQL, designing database schemas and optimizing ETL-style data flows between front-end forms and backend tables.
- Optimized SQL queries and indexing to improve data retrieval speed by 25%, resulting in a 30% increase in user engagement.
- Designed and implemented responsive UI components including navigation, home, and detail pages for a seamless user experience.

**Web Developer Intern**

**Ahmedabad, India**  
**Dec 2020 – Feb 2021**

PackBagBuddy

- Redesigned the company website to improve navigation, UI, and overall user experience while boosting site performance by 20% through optimized SQL queries and data handling.
- Identified and fixed critical bugs under tight deadlines, reducing user-reported issues by 15% and enhancing application efficiency.

## PROJECTS

**Market Surveillance Dashboard – MVP**

**Oct 2025 – Oct 2025**

- Built an end-to-end ETL pipeline using Apache Airflow and dbt to automate ingestion, transformation, and analysis of 1000+ simulated market trades.
- Implemented data-quality tests and modular dbt models for rule-based anomaly detection in PostgreSQL, containerized via Docker Compose for reproducible orchestration.
- Developed a self-service Metabase dashboard visualizing spoofing, layering, and quote-stuffing alerts with real-time severity insights.
- Enabled governed, analytics-ready data modeling with dbt to ensure schema integrity and reliable reporting pipelines.

**ShopSense – Serverless Retail Analytics Agent**

**Jun 2025 – Jun 2025**

- Designed a serverless data pipeline using multiple AWS Lambda functions integrated with S3, Glue, Athena, and EventBridge to automate weekly and monthly retail sales insights.
- Processed and segmented 50,000+ sales records using Python (Pandas, NumPy) in Lambda and executed SQL queries in Athena to analyze co-purchase patterns, seasonal trends, and weather-based sales shifts.
- Built and containerized a custom Docker layer to package Python dependencies for Lambda functions, ensuring reproducible deployments and faster cold starts.
- Generated JSON summaries through OpenRouter's Mistral LLM, automated PDF report creation and email delivery via AWS SES.

**YouTube Data Analytics – ELT Pipeline with AWS and Tableau**

**Apr 2025 – Apr 2025**

- Built an automated ELT pipeline in Python to extract, clean, and transform YouTube API data for 270+ videos spanning 11 years.
- Queried structured datasets in Athena using SQL and visualized KPIs, trends, and engagement metrics in Tableau.
- Reduced manual reporting effort by 80% through pipeline automation and AWS-based orchestration.

**AgriVantage – AI Voice Assistant for Sustainable Farming**

**Mar 2025 – Mar 2025**

- Built a Python-based GenAI pipeline to process and vectorize voice queries, retrieving context-aware agricultural insights via FAISS similarity search in real time.
- Integrated Twilio and FastAPI to orchestrate end-to-end voice interaction with sub-2-second latency and 99% response reliability.
- Implemented a LangChain-driven RAG workflow combining 6 domain-specific datasets to improve contextual accuracy by 35%.

## LEADERSHIP / EXTRACURRICULAR

- Participated in multiple hackathons, including the Amazon Lambda Hackathon 2025 (ShopSense) and GeorgeHacks 2025 (AgriVantage), building end-to-end data engineering and AI-driven solutions both individually and as part of a team.
- Served as Student Front Desk Assistant – George Washington University, Aug 2024 – May 2025, strengthening problem-solving, multitasking, and communication skills applicable to technical and client-facing roles.
- Contributed to Data Science for Sustainable Development (DSSD) – GWU, performing geospatial data analysis and developing Tableau dashboards to visualize sustainability metrics for research-driven insights.