

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 Telestream <ul style="list-style-type: none">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.	Bangalore, India Jul 2022 – Jul 2023
Full Stack Developer Intern Tequed Labs <ul style="list-style-type: none">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.	Bangalore, India Sep 2021 – Oct 2021
Web Developer Intern PackBagBuddy <ul style="list-style-type: none">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.	Ahmedabad, India Dec 2020 – Feb 2021

PROJECTS

Market Surveillance Dashboard – MVP <ul style="list-style-type: none">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.	Oct 2025 – Oct 2025
ShopSense – Serverless Retail Analytics Agent <ul style="list-style-type: none">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.	Jun 2025 – Jun 2025
YouTube Data Analytics – ELT Pipeline with AWS and Tableau <ul style="list-style-type: none">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.	Apr 2025 – Apr 2025
AgriVantage – AI Voice Assistant for Sustainable Farming <ul style="list-style-type: none">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%.	Mar 2025 – Mar 2025

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.