

GAGANAVARSHI KANUMURU

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TECHNICAL SKILLS

- **Languages:** Python, Java, SQL (MySQL, PostgreSQL, SQL Server, PL/SQL), C/C++, JavaScript, Bash/Shell, HTML, CSS, Bootstrap, React.js
- **Data Engineering & ETL:** Data pipeline automation, API integration, ETL design, Web scraping (Selenium, BeautifulSoup), Data Cleaning & Transformation, Batch & Stream processing, Workflow Scheduling (Airflow), dbt, Data Modeling, Warehousing (Redshift, Snowflake, Databricks, SSIS-basic)
- **Analytics & Machine Learning:** scikit-learn, PyTorch, OpenAI API, Hugging Face Transformers, Time Series Forecasting, Power BI, Tableau (basic), Excel (pivot tables, VLOOKUP)
- **Backend & Frameworks:** FastAPI, Django, Flask, REST, SOAP, JSON, Spring Boot, Microservices, Distributed Systems
- **Cloud Platforms:** AWS (S3, Redshift, Lambda, QuickSight, Athena), Azure, GCP (BigQuery)
- **DevOps & Automation:** Git, GitHub, GitHub Apps, CI/CD pipelines, Docker (basic), VS Code, PyCharm, Eclipse, Visual Studio
- **Systems & Device Management:** Intune, JAMF, JIRA, Confluence, Active Directory, SCCM
- **Expertise Areas:** Scalable ETL, Cloud Data Integration, API automation, Backend development, Process automation, Business Intelligence
- **Soft Skills:** Stakeholder collaboration, Team leadership, Training, Technical documentation, Strong analytical mindset

EXPERIENCE

ATC Analytics, Portland, OR

Sep 2024 – Present

Data Engineer

- **Automated and optimized backend data pipelines** for 80K+ companies using **Python, SQL, and GitHub APIs**, resulting in **30% faster data processing** and more accurate reporting for business intelligence use cases.
- **Developed validation frameworks** for manual and automated testing of 5,000+ company matches, achieving **95%+ mapping accuracy** for official GitHub organization assignments.
- **Enhanced search query automation tools** for GitHub and Hugging Face, leveraging **API integration** and **Python scripting** to accelerate early-stage research and prototype delivery.
- **Implemented token rotation, request throttling, and error handling** for scalable, resilient data scraping and collection processes, ensuring compliance with strict API rate limits.
- **Authored technical documentation, user guides, and process flowcharts**, supporting effective knowledge transfer and fast onboarding for new team members.

Central Michigan University, Mount Pleasant, MI

Jan 2023 – May 2024

Technical Research Assistant

- **Provided direct hands-on technical support** for over **300+ faculty, students, and staff**, resolving **hardware, software, network, and system issues** on Linux, Windows, and Mac environments.
- **Streamlined IT ticketing and root cause analysis** processes, increasing issue resolution speed by 20% and enhancing cross-team collaboration for escalated or complex technical cases.

DXC Technology

Jun 2021 – Dec 2022

Associate Professional Software Engineer

- **Automated insurance document processing and claims workflows** using **Java, Oracle Documaker, and custom scripts**, eliminating repetitive manual entry and increasing process speed by **75%**.
- **Designed and optimized data extraction and transformation scripts**, improving the flow of customer and policy data into downstream systems and enabling faster reporting and auditing.
- **Collaborated with cross-functional teams** in Agile sprints to analyze data processing issues, implement fixes, and improve overall **data quality and consistency**, leading to a **15% boost in client satisfaction**.

PROJECTS

NLP-Powered Research Companion Chatbot

- **Developed a Dialogflow and Python-based chatbot** to help students efficiently search and retrieve academic papers, integrating **web scraping** and **keyword ranking logic** to deliver the most relevant results.
- **Built and deployed a 24/7-accessible web interface** (HTML, CSS, Netlify) and maintained user documentation for a seamless student research experience.

Solar Energy Forecasting with Machine Learning

- Built and compared models (ANN, Moving Average, Fuzzy Logic) to predict solar energy using real PV output data.
- Focused on modular design, clean evaluation flow, and reliable forecasting using **Python** and **sklearn**.

EDUCATION

Central Michigan University, Mount Pleasant, MI

Master of Science in Computer Science

Jan 2023 – May 2024

Relevant Coursework: Algorithms & Advanced Data Structures, AI & ML, Systems Programming, Data Warehousing, Big Data, Data Science