

ISFAR BASET

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EDUCATION

Georgetown University (GU)

Master of Science in Data Science and Analytics | GPA: 4.0

Washington, D.C.

Aug 2023 - May 2025

Coursework: Probabilistic Modeling and Statistical Computing, Database Systems and SQL, Advanced Data Visualization, Data Ethics and Policy, Computational Linguistics, Machine Learning App Deployment, Digital Storytelling, Big Data and Cloud Computing (TA), Applied Generative AI (Lead TA)

Leadership & Activities: **Social Committee Member & Lead Mentor** in the Data Science and Analytics program

Grand Valley State University (GVSU)

Bachelor of Science in Computer Science

Grand Rapids, MI

Aug 2015 - May 2020

WORK EXPERIENCE

Shift Digital, Software and Delivery Team

Data Analyst

Birmingham, MI

Nov 2021 - May 2023

- Improved data accuracy by 25% across 10+ enterprise projects by optimizing big data ETL processes
- Worked with cross-functional teams to design scalable data architecture, delivering actionable findings to senior executives
- Streamlined operations for 12 high-value clients and saved 15 hours weekly by automating billing data processing
- Managed data migration and transformation within Databricks, creating efficient pipelines for business-critical insights
- Leveraged SQL and Python within PySpark to transform raw data into cleaned, analysis-ready datasets
- Enhanced data visibility with interactive dashboards, enabling faster decisions for key stakeholders
- Crafted technical proposals aligned with project scope and business goals, achieving near 100% customer approval rate

Array of Engineers

Computer Engineer

Grand Rapids, MI

Jul 2020 - Nov 2021

- Verified Airbus A350 avionics software using DOORS and Ansys SCADE, ensuring aerospace industry compliance
- Improved user experience by optimizing web app features with AngularJS, increasing client retention by 25%
- Introduced modular workflows for software testing, enhancing adaptability and achieving 98% on-time delivery
- Conducted A/B testing on web app features, identifying improvements to enhance functionality and usability
- Led GitHub code reviews across a multidisciplinary team, mitigating critical issues early in the development process

ACADEMIC PROJECTS

Topics and Sentiments in Reddit Data

Georgetown University | Aug 2023 - Dec 2024

- Analyzed 1+ billion Reddit posts and comments over 14 months using NLP and ML, uncovering U.S. state-level trends
 - Refined 109 GB of data using Spark on AWS SageMaker, achieving a 95% reduction for efficient large-scale analysis
- URL: [U.S. State Sentiments on Reddit](#)

Entity Relationship Extraction Web App

Georgetown University | Aug 2023 - Dec 2024

- Built a Flask app using spaCy and D3.js for real-time entity relationship analysis and visualization.
- Deployed on Heroku with a responsive Bootstrap UI, enabling query-driven and versatile visualization of news data

Crisis Information Retrieval and Summarization

Georgetown University | Aug 2023 - Dec 2024

- Engineered a hybrid retrieval system with SentenceTransformers, strengthening search precision for crisis datasets
- Developed and launched a scalable app using Docker for information retrieval and transformer-based summarization

Geospatial Climate Impact Analysis

Georgetown University | June 2023

- Evaluated 40+ years of climate data and delivered insights through an interactive web interface
 - Generated visualizations using Python (Pandas, Seaborn, Plotly) and R (ggplot2, Quarto) to simplify complex datasets
- URL: [Climate Chronicles - Southeastern Utah's National Parks](#)

SKILLS

Programming: Python, SQL, R, Java, C++

Data Visualization: Tableau, Plotly, Seaborn

NLP: spaCy, Hugging Face Transformers, BERT

Tools: Docker, Flask, Git, Quarto, CI/CD pipelines

Machine Learning: Scikit-learn, TensorFlow, PyTorch, XGBoost

Big Data & Cloud: Apache Spark, Databricks, AWS Sagemaker

Databases: MySQL, PostgreSQL, MongoDB, Snowflake

Statistical Methods: A/B Testing, Regression, Bayesian Analysis