Joshua George

DATA SCIENCE || SOFTWARE DEVELOPMENT

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Skills

- Programming: Python, Java, C++, JavaScript
- Data Science & Machine Learning: Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, TensorFlow
- Databases: SQL (MySQL, PostgreSQL), SQLite
- Statistical Analysis: ANOVA, Chi-Square tests, Regression Analysis
- Data Visualization: Tableau, Matplotlib, Seaborn, Power BI
- Tools & Frameworks: Git, Jupyter Notebooks, Flask, FastAPI, Microsoft Excel (Macros, Pivot Tables)

Experience

Fairmont State University || Undergraduate Research Assistant 2024-2025

- Conducted multiple research projects analyzing STEM students' performance using Python (Pandas, NumPy), Excel Macros, and PAST software.
- Applied ANOVA, Chi-Square tests, and regression analysis to assess socioeconomic and educational impacts on student success.
- Developed predictive models and data visualizations to support institutional decision-making and student retention strategies.
- Automated data encoding, cleaning, and preprocessing workflows to improve research efficiency by 30%.
- Collaborated with faculty and research teams to present findings at academic conferences and institutional reports.

Fairmont State University || LEAD Center Tutor 2024-2025

- Provided personalized tutoring in Python, Java, Data Science, and Mathematics.
- Developed learning materials on data structures, algorithms, and database queries.
- Collaborated with faculty and peers to refine tutoring practices, supporting academic success and retention.

Education

Fairmont State University, BS Computer Science 2025

Projects

Post-Mortem Interval Estimation August 2024

- Collaborated with business and forensic students to develop a client-server application designed to estimate post-mortem intervals for forensic investigations.
- Integrated cross-disciplinary knowledge to address real-world forensic challenges.
- Leveraged programming and teamwork skills to deliver a functional application.

Learning Enrichment and Academic Development (LEAD) Data Processing Tool January 2024

- Created a Python-based data mining tool to analyze tutoring session trends and student performance.
- Integrated Natural Language Processing (NLP) for extracting key insights from tutoring logs.
- Utilized SQL and Pandas for data extraction, transformation, and visualization.
- Provided automated reports with data-driven recommendations for academic improvement.

Appalachian Culture Research August 2024

- Conducted data-driven analysis of STEM students' performance using Python (Pandas, NumPy) and Excel Macros, and PAST software.
- Applied ANOVA and Chi-Square tests to assess socioeconomic impacts on academic success.
- Designed data visualizations to communicate insights effectively to faculty and stakeholders.
- Automated data encoding and preprocessing workflows to improve efficiency by 30%.