Ian M. Stonecypher

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EDUCATION

Colorado School of Mines, Golden, CO.   Graduate GPA: **4.0**

    Master of Science: Data Science   **May 2025**

    Bachelor of Science: Applied Math and Statistics   **May 2024**

Relevant Coursework: Machine Learning | Advanced Statistical Modeling | Database Management

Awards and Honors: Tau Beta Pi Member | Seven-time Dean's List Honors student | Mines Choice Scholarship

WORK EXPERIENCE

Transamerica / TECHNOLOGY INTERN   May 2023 - Aug 2023

- Used problem-solving and machine learning algorithms to discover trends in unstructured application-log data, and gave an oral presentation on how to use these patterns to detect application health problems
- Developed data pipelines that migrated many gigabytes of data from mainframes to a data-lake
- Designed 6 mock endpoints using AWS API Gateway to allow for easy querying of the data-lake

Northrop Grumman Corporation / SYSTEMS ENGINEER INTERN   Jun 2022 - Aug 2022

- Led a research project analyzing the current state of a software testing process, connected with other teams to gain insight, and delivered a report package on how to implement end-to-end testing
- Researched a program with close attention to detail, and clearly communicated what improvements to make

PROJECTS & LEADERSHIP

Computer Vision with Simpsons Characters Project   Jul 2024

Built a model to identify characters from "The Simpsons", as a personal project to learn and practice

- Ingested and transformed 1.1 GB of raw image data to be useable in Python
- Built, tested, and refined a convolutional neural network with Tensorflow, and achieved 82% accuracy

Intro to Data Science Semester Project   Aug 2022 - Dec 2022

Developed a predictive model using Python to correlate happiness levels with various societal factors

- Iteratively tested and refined the model using feature engineering, statistical methods, and a combination of supervised and unsupervised algorithms, and achieved an r-squared score of 0.77
- Delivered a 14-page written report with visualizations, to communicate the data, results and implications

Mines Mathematics and Computing Collaborative / RECORDING ADMINISTRATOR   Sep 2021 - May 2022

The MMCC exposes high-school students to STEM by use of engaging workshops in mathematics and computing

- Composed written communications for the club mailing list, and recorded clear and concise meeting minutes
- Collaborated with a team to create and present content for a financial math workshop in Python

SKILLS

Technical:

- Machine learning algorithms • Mathematical & statistical modeling • Data visualization, analysis, processing
- Python libraries including SciKit Learn, Tensorflow, Pandas, Matplotlib • SQL • R • C++
- Microsoft products, including Excel • AWS Cloud Practitioner certification • Informatica PowerCenter

Strengths:

- Detail-orientated • Self-motivated • Analytical problem solver • Strong oral and written communicator
- Fast and eager learner • Works well on a team and individually • Skilled at time management