Drew Cornmesser

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Education

Colorado School of Mines — Graduation May 2023
B.S. Computer Science + Data Science — *Golden, CO*
Minor: McBride Honors Program in Public Affairs — *GPA:* 3.68
Cum Laude

Colorado School of Mines — January 2023 – May 2024
M.S. Data Science + Machine Learning — *Golden, CO*
GPA: 4.0

Experience

Data Engineering Intern – Cyber Analytics — May 2023 – August 2023
Chevron Corporation — *Houston, Texas*

- Leveraged Azure Synapse Analytics and Azure Data Factory for ETL data pipeline orchestration; allowed for daily data ingestion to Azure Data Lake Storage Gen2 cloud infrastructure
- Led process optimization efforts of existing Synapse Python code solutions; utilized parallel processing, efficient data structures and statistical hypothesis tests to achieve a 1400% improvement in pipeline speeds
- Migrated existing ETL pipeline solutions from ADF to Synapse; resulted in 66% improvement in pipeline speed
- Utilized dashboards and interactive reports in Microsoft PowerBI to disseminate Dynamic Application Scanning Testing (DAST) data to a non technical audience
- Served on the Leadership Team of the Houston XYZ Employee Network; planned event with over 150+ employee attendees

Adjunct Professor – Computer Science — August 2023 - May 2023
Colorado School of Mines — *Golden, Colorado*

- Taught *CSCI128: Computer Science for STEM* to 120+ undergraduates, developing coursework covering topics spanning Python, algorithms, hardware, software, networking, AI, and social issues in computing
- Developed Beautiful Soup and Selenium based web scraping coursework for *CSCI303: Introduction to Data Science*; provided material for 75+ students
- Implemented a convolutional neural network (CNN) with TensorFlow and TensorFlow Hub for deep style transfer
- Served as the Lead Teaching Assistant for *CSCI303: Introduction to Data Science*; developed coursework covering Python data extraction libraries, machine learning algorithms, web scraping, and artificial intelligence
- Wrote Python scripts to validate, grade, and populate scores on the Gradescope platform and Canvas LMS via RESTful HTTP requests; processed over 500 submissions

Software Engineering Intern — May 2022 – July 2022
Optical Engines Inc. — *Colorado Springs, CO*

- Developed and implemented full stack web applications to an already existing code base; utilized React.js on the front end and Node.js on the back end
- Extended functionality of existing software for reading data from a Thermopile sensor; conducted modifications and upgrades on a WPF .NET front end and C# back end
- Wrote Python APIs to send and query data from a MySQL database; enabled data to be accessible to non-technical users

Technical Skills

Languages: Python, PySpark, C/C#/C++, Java, JavaScript, OCaml, Swift, RISC-V Assembly, MySQL, Postgres, HTML, WPF .NET, MATLAB & Simulink, LaTeX
Developer Tools: Azure Synapse Analytics, Azure Data Factory, Microsoft PowerBI, Git, JetBrains IDEs, VS Code, PuTTy
Certificates: Microsoft Azure Data Fundamentals
Libraries: SciPy ecosystem, Scikit-learn, TensorFlow/Keras, Pandas, NumPy, Selenium, Beautiful Soup
Relevant Skills: Agile/SAFe methodology, Azure cloud services, Spanish fluency

Honors & Awards

C-MAPP Scholar — awarded $1,000 in scholarships for achievement in computing — 2022
Mines Undergraduate Research Fellowship — awarded $3,000 in grants for undergraduate research — 2020

Organizations

McBride Honors Program — Honors College; for achievement in scholarship at the undergraduate level — 2020 – Present