Simon Sprouse

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Focus

I am seeking full-time employment. I have experience in Software Engineering and Financial Analysis.

Current Position

Quant Fund Director, Reveille Fund - UTIMCO - Austin, TX — Aug 2023 - Present

- Significantly outperformed SP500 Index by 300 basis points during calendar year 2023.
- Promoted from Junior Analyst to Director of Quantitative Trading and Lead Analyst.
- Lead a team of Software Developers in the back-testing and deployment of financial models.
- Advised investment strategy for $10.3 million dollar portfolio managed actively.

Education

Texas AM University, BS in Computer Science (Senior) — Aug 2021 - May 2025

- GPA: 3.9/4.0
- **Coursework:** Computer Architecture, Artificial Intelligence, Design of Algorithms, Data Science
- **Skills:** Python, C / C++, SQL, Java, JavaScript, HTML, CSS, R, Bash, AWS, GCP, Azure, GitHub, Linux, Unix

Work Experience

Software Engineer, Standard Data – Austin, TX — Dec 2023 – Jun 2024

- Wrote Oauth 2.0 compliant code to display data from medical EHR database.
- Fine-Tuned custom Open Ai LLM assistant to summarize internal documents and materials.
- Designed a machine-learning focused data science assessment in Python to screen new hire candidates.
- Deployed endpoints to the cloud using AWS CDK, SST, and other data engineering tools.

Teaching Assistant, Texas AM Engineering – College Station, TX — May 2023 - May 2024

- Lead a Lecture series on Data Structures and Algorithms for 400 students.
- Created YouTube channel for course concepts with 1,700 hours of watch time - YouTube Link
- Contributed to university codebase in C++, extensive debugging involved.

Data Scientist, American Airlines – Dallas, TX — Jan 2023 - May 2023

- Worked with a team of 2 other students to predict passenger activity on commercial flights.
- Created a dataset from more than 900,000 flight logs (under NDA).
- Built a Python based visualization tool to display maps of flight traffic.
- Tested hundreds of ML models on predictive power, settled on LightGBM tree approach.

Projects

Pixel Filtering Artwork — Project Github Link

- User uploads an image and can apply multiple custom filters I created.
- Pandas back-end code applies algorithmic filters, OpenCV front-end takes real-time setting inputs from user.
- Tools Used: Python, OpenCV, Pandas, NumPy

Image Encryption Algorithm — Project GitHub Link

- User uploads a hidden text and program returns a modified image. The code runs backwards for retrieval.
- The code makes slight manipulations the color channels to store the data discretely.
- Tools Used: JavaScript, React, HTML, CSS