Levi Sprung

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Education

Colorado School of Mines (3.80 GPA) — Golden, CO

Bachelor of Science in Computer Science — *Aug. 2021 – May 2025*

Master of Science in Data Science — *Jan. 2025 – May 2026*

- ICR C-MAPP Scholar (2023-2024)
- Relevant coursework: LLMs, Network Science, Cloud Computing, Mathematical Statistics, Statistical Modeling, Algorithms, Data Structures, Operating Systems
- Studied at University of Oviedo in Oviedo, Spain during Fall 2024

Experience

General Atomics — Englewood, CO

Ground Software Intern — *Jun 2024 - Aug 2024*

- Designed standard database schema in MariaDB on AWS server to be used for current and future missions while accounting for possible complexities with telemetry data storage
- Authored design documents detailing design of database and data ingestion scripts, enabling engineers to incorporate the database into mission operations and adapt the schema to each mission
- Collaborated with two other interns to build up GA's new ground software system, utilizing Python, OpenC3 COSMOS, MariaDB, and ActiveMQ

Ground Software Intern — *Jun 2023 - Aug 2023*

- Developed relational MariaDB database on AWS server to store spacecraft telemetry data, improving troubleshooting capability by enabling long-term trending and more effective customer communication (still in operation today)
- Enabled rapid resolution and mitigation of critical spacecraft anomalies by developing Python scripts, reducing troubleshooting time by 30%
- Implemented user-friendly GUI in Python using tkinter (from Python standard library) that simplified spacecraft commanding, cutting operator errors and improving mission reliability

Colorado School of Mines — Golden, CO

Teaching Assistant - Algorithms — *Jan 2024 - May 2024, Jan 2025 - Present*

- TA'ed for 180-200 students for two semesters, with 1 hour of office hours and 2-4 hours of grading per week
- Collaborated with professors and other TAs to improve homework and projects

Bartell Drugs — Seattle, WA

Cashier — *Jun 2022 - Aug 2022*

- Overcame staffing shortages by optimizing time management and task prioritization
- Resolved 10+ customer inquiries and concerns promptly and professionally daily, ensuring accurate information and a positive customer experience

Projects

Knowledge Graph Generation - HiLabs | *Python, LangChain, LLMs* — Sep 2023 – Dec 2023

- Applied prompt engineering techniques to design and optimize prompts, enabling Meta's Llama LLM to generate Knowledge Graphs from university course materials for structured data representation and comprehension
- Worked with team of 4 utilizing Agile practices

NFL Combine Data Analysis | *Python, scikit-learn, numpy, pandas, matplotlib, seaborn* — Nov 2023 - Dec 2023

- Developed predictive models to forecast NFL player statistics based on NFL Combine performance data
- Used pandas, pyplot, and seaborn for EDA, applied transformations on the data using numpy, and used scikit-learn to run several models with various parameters

Technical Skills

Languages: Python, Java, C/C++, SQL (MySQL, Postgres, MariaDB), R
Developer Tools: Git, Docker, VS Code, Visual Studio, Eclipse, Jupyter Notebooks
Libraries: PyTorch, pandas, NumPy, Matplotlib, OpenCV, LangChain, scikit-learn, seaborn