

# Luke Pitstick

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## EDUCATION

<b>University of Colorado Boulder</b> <i>Bachelor of Arts in Data Science and Political Science</i>	Boulder, CO Aug. 2024 – May 2028
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## EXPERIENCE

<b>Junior Data Manager</b> <i>National Atmospheric &amp; Oceanic Administration</i>	Oct. 2025 – Present Boulder, CO
<ul style="list-style-type: none"><li>Processed 30TB+ per week of large-scale ocean acoustic datasets via batch ingestion, validation, and cloud archival pipelines using Oracle DB and AWS S3 to ensure high-fidelity archiving.</li><li>Streamlined water column sonar and passive acoustic data workflows from sea vessel monitoring systems, ensuring high data availability for national research teams.</li><li>Optimized and debugged Python ingest pipelines feeding into NOAA's GIS infrastructure, reducing ingestion errors and increasing the rate of archival by 30%.</li></ul>	
<b>Data Science Intern</b> <i>RCV for Longmont</i>	Oct. 2025 – Present Boulder, CO
<ul style="list-style-type: none"><li>Engineered high-resolution demographic maps in ArcGIS, R, and Python, enabling campaign teams to visually identify turnout gaps and execute targeted outreach.</li><li>Developed and validated fixed-effects regression models to predict voter turnout, increasing prediction accuracy and driving data-driven campaign strategy.</li></ul>	
<b>Representative-at-Large &amp; Historian</b> <i>University of Colorado Student Government</i>	May 2025 – Present Boulder, CO
<ul style="list-style-type: none"><li>Supported the allocation of a \$36M budget, implementing equitable distribution protocols to fund diverse student programs.</li><li>Spearheaded student legislation and collaborated with the Governor of Colorado to advocate for student interests at the state level.</li><li>Authored legislation regarding campus waste bin policy, successfully increasing waste diversion rates.</li><li>Managed the archival and organization of student government documents to uphold organizational transparency policies.</li></ul>	
<b>Student Software Developer</b> <i>CU Boulder Office of the Registrar</i>	Aug. 2024 – May 2025 Boulder, CO
<ul style="list-style-type: none"><li>Deployed C# services with Selenium to automate student data management, reducing manual entry time by 60%.</li><li>Integrated software solutions enabling school administrators to automate student database updates via CSV batch processing.</li></ul>	

## PROJECTS

<b>NYC Rent Price Forecaster</b>   <i>Python, Typescript, Pandas, ArcGIS, PostgreSQL</i>	Nov. 2025 – Present
<ul style="list-style-type: none"><li>Implemented a hierarchical SARIMAX model using historical NYC rent data to forecast neighborhood prices with a MAE of \$150.</li><li>Leveraged ArcGIS, FastAPI, and Typescript to build a responsive interface for end-user interaction and spatial visualization.</li><li>Architected a PostgreSQL backend to support high-speed data retrieval and live model refitting.</li></ul>	
<b>Citation Generator</b>   <i>Python, BAML, FastAPI, Playwright, Streamlit, GCP</i>	Oct. 2024 – Nov. 2024
<ul style="list-style-type: none"><li>Developed a citation engine using structured BAML data to programmatically generate academic citations with 100% accuracy.</li><li>Orchestrated FastAPI with GCP Cloud Run to provide a scalable, low-cost scraping API.</li><li>Designed a custom web UI using Streamlit to enhance user experience and accessibility.</li></ul>	

## TECHNICAL SKILLS

**Languages:** Python, R, SQL, Typescript, Java

**Frameworks/Libraries:** React, FastAPI, LangChain, Pandas, NumPy, Scikit-Learn

**Cloud/Databases:** AWS, GCP, Oracle, PostgreSQL, Firestore

**Other:** Bash, Linux, Git, Vim, ArcGIS, Selenium