

Luke Pitstick

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EDUCATION

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

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

PROJECTS

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

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