

Michael T. Moen

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EDUCATION

M.S. in Applied Statistics , The University of Alabama, <i>Tuscaloosa, AL</i> - 3.67/4.00 GPA	May 2026
B.S. in Computer Science & Mathematics , The University of Alabama, <i>Tuscaloosa, AL</i> - 3.89/4.00 GPA	May 2026

EXPERIENCE

Research Computing Student Lead , The University of Alabama Libraries, <i>Tuscaloosa, AL</i>	January 2023 - Present
<ul style="list-style-type: none">· Provide software development and data analysis support, assist with code in Python, C++, R, Java, HTML, CSS, and more.· Publish 20+ tutorials on accessing and analyzing REST APIs using Python and R, managing and reviewing GitHub Pages site content.· Built a full-stack web application using a Python Flask backend and a JavaScript, HTML, and CSS frontend for retrieving CEO pay data.· Design and teach workshops covering programming, data analysis and visualization, and machine learning using Python and R.· Document team and project standards and workflows to assist with onboarding and future operations.	
MLOps Engineer Intern , Veterans United Home Loans, <i>Remote</i>	May 2025 - Present
<ul style="list-style-type: none">· Reduced latency in a Python FastAPI microservice by decoupling it from a RabbitMQ, replacing it with database access via SQLAlchemy.· Created and maintained unit tests using pytest, ensuring code reliability and enhancing CI/CD pipelines in GitLab and GitHub.· Designed and implemented Prometheus monitoring endpoints in a microservice, using Grafana to visualize metrics.· Developed containerized applications with Docker, leveraging Windsurf and ChatGPT as AI coding assistants.	
Web Developer Intern , Bowfin Tech, <i>Remote</i>	January 2025 - May 2025
<ul style="list-style-type: none">· Built a client's website using WordPress and Elementor, implementing responsive web design for mobile and desktop users.· Implemented user tracking by integrating Google Tag Manager and Google Analytics with Google Ads and Meta Pixel.	
Cyber Software Engineer Intern , Northrop Grumman, <i>San Antonio, TX</i>	June 2024 - August 2024
<ul style="list-style-type: none">· Automated the installation and updating of applications on 20+ Windows workstations on an air-gapped network by writing an Ansible playbook and PowerShell script, saving roughly 90 hours of manual updates per month.· Drafted a white paper for a Docker infrastructure to securely process files using multiple containers, reducing data transfer costs.· Configured a persistent SMB mount with Kerberos authentication in Red Hat Enterprise Linux.· Gained experience with Agile practices by participating in scrum meetings, sprint planning, and sprint retrospectives.	
Software Engineer Intern , National Geospatial-Intelligence Agency, <i>St. Louis, MO</i>	June 2023 - August 2023
<ul style="list-style-type: none">· Cleaned Jira backlog of 2400+ tickets using Python, eliminating 100+ duplicate items and creating visualizations of the data with matplotlib.· Redesigned a Confluence website, creating a more user-friendly design and adding the ability to search and view files in browser.· Automated an accounting procedure using Microsoft Excel, saving about 5 hours of manual work per month.	

PROJECTS

Air Quality vs. Life Expectancy Analysis <i>R, Python (Pandas)</i>	
<ul style="list-style-type: none">· Analyzed U.S. county-level data to evaluate the relationship between air quality indicators and cause-specific mortality rates.· Joined and cleaned datasets from multiple sources using Python, performing exploratory data analysis and model diagnostics in R.· Built multiple linear regression models with variable selection and multicollinearity checks using R to identify key pollutants.	
Personal Website <i>React, HTML, CSS, Bootstrap</i>	mtmoen.com
<ul style="list-style-type: none">· Designed a website using React, HTML, CSS, and Bootstrap to create a responsive, professional, and mobile-friendly interface.	

SKILLS

Languages	Python, C++, R, JavaScript, HTML, CSS, SQL, LaTeX
Frameworks	FastAPI, scikit-learn, React, Flask, Bootstrap
Tools	Git, GitHub, Linux, Jira, Confluence, WordPress, Microsoft Office