

MICHAEL T. MOEN

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EDUCATION

The University of Alabama

M.S. in Applied Statistics - 3.67/4.00 GPA

May 2026

Tuscaloosa, AL

The University of Alabama

Honors B.S. in Computer Science & Mathematics (Statistics & Optimization Track) - 3.89/4.00 GPA

May 2026

Tuscaloosa, AL

National Merit Scholarship Recipient (5 years full tuition, 4 years housing + stipend)

EXPERIENCE

The University of Alabama Libraries

Research Computing Student Assistant

January 2023 - Present

Tuscaloosa, AL

- Provide software development and data analysis assistance for researchers and librarians at the University of Alabama.
- Publish 20+ online tutorials detailing how to access and analyze data from REST APIs using Python and R.
- Manage GitHub Pages site and review tutorials written by other writers, seeking new APIs to expand the site's coverage.
- Develop a web application using a Flask backend written in Python and a frontend written with JavaScript, HTML, and CSS.
- Design, teach, and create materials for workshops covering Python, Linux, and other coding and data analysis topics.
- Assist students and researchers with coding issues in C++, Python, Java, HTML/CSS, and other languages.

Veterans United Home Loans

Software Engineer Intern

May 2025 - August 2025

Remote, MO

- Incoming intern for Summer 2025.

Bowfin Tech

Web Developer Intern

January 2025 - May 2025

Remote, AL

- Built the front end of a client's website using WordPress, 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.

Northrop Grumman

Cyber Software Engineer Intern

June 2024 - August 2024

San Antonio, TX

- 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 a file by multiple containers, minimizing 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.

National Geospatial-Intelligence Agency

Software Engineer Intern

June 2023 - August 2023

St. Louis, MO

- Cleaned Jira backlog of 2400+ tickets using Python, eliminating 100+ duplicate items and creating visualizations of the data.
- 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

Penny: An AI Chatbot Assistant for Saving Money

Python (Flask, Plotly)

- Created an application utilizing the OpenAI API to advise customers how to reduce spending based on their transaction history.
- Won 1st place out of ten teams in the Fintech category at the UA Innovate Hackathon, winning the \$1000 grand prize.

SKILLS

Languages

Python, C++, R, JavaScript, HTML, CSS, SQL

Tools

Git, GitHub, Linux, Jira, Confluence, WordPress, Microsoft Office