Rachel Peterson

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LinkedIn | Github

EXPERIENCE

Software Engineer

Cooperative Institute for Research in Environmental Sciences   *November 2024 - Present*

- Architecting and developing the migration of the National Oceanic and Atmospheric Administration's (NOAA) Trackline Marine Geophysical Data pipeline into AWS, leveraging Python, GitLab, CloudFormation, Step Functions, Lambda and other technologies to improve scalability and reliability
- Maintaining and improving full-stack Java and Vue-based cloud-native and on-premises applications used in the management of marine geophysical data
- Connecting scientific dataset expertise with enterprise-level technical knowledge to effectively communicate and implement user needs in collaboration across many development teams in an Agile context

Production Support Analyst

Connect For Health Colorado   *January 2023 - October 2024*

- Served as a product subject matter expert and liaison between support and development teams, ensuring compliance with state and federal health policy
- Identified and resolved thousands of accounts impacted by application bugs, including careful consultation with legal personnel to resolve system issues with health policy compliance implications
- Recognized patterns across large numbers of customer account issues and connected application expertise with technical understanding, ultimately resulting in the remediation of thousands of customer account issues

Configuration Analyst

Shelter Insurance Companies   *October 2021 - January 2023*

- Supported product upgrades across multiple code releases by coordinating testing across product areas and facilitating and testing code deployments
- Developed, executed and maintained manual test scripts, reducing post-release defects
- Analyzed test results and created reports for efficient communication of product defects to vendor

Teaching Assistant

Oregon State University   *June 2021 - December 2021*

- Supported over 100 undergraduates in Discrete Structures through office hours and online forums
- Simplified complex theoretical concepts into accessible teaching, boosting student comprehension and engagement

SEVIS Compliance Assistant

University of Missouri - Columbia   *November 2019 - January 2021*

- Maintained updated records for 1000+ international students and sorted a student records database of 30,000+ documents to ensure university compliance with federal regulations

Undergraduate Research Fellow

University of Missouri - Columbia   *August 2015 - March 2017*

- Recruited and interviewed participants and completed data entry for multiple studies in the Physical Therapy department under the direction of a faculty mentor
- Presented independent secondary analysis at local and national research conferences

SKILLS

Python, AWS (Cloudformation, Step Functions, S3, EC2, Lambda, IAM), Java, SQL, Javascript (React), Bash, Neo4J, Gitlab, Github, Agile, Spanish Professional Working Proficiency

EDUCATION

Oregon State University | March 2021 - June 2024

Bachelor of Science in Computer Science | GPA: 4.0

University of Missouri | August 2015 - December 2018

Bachelor of Arts in Romance Languages - Spanish | GPA: 3.99

PRESENTATIONS

R. Peterson, B. Meyer. *"Transitioning Data to the Cloud,"* GEBCO Nippon Scholars Visit, Boulder, CO (May 2025).

POSTERS

R. Peterson, B. Meyer, J. Schweizer, T. Mitroi, M. Royer, R. Klucik. *"Migrating Marine Trackline Geophysical Data to the Cloud: A Paradigm Shift for Data Management,"* American Geophysical Union, New Orleans, LA (December 2025).