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Joseph L. Pickert

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GitHub: <https://github.com/PickertJoe>

EDUCATION

University of Kansas Lawrence, KS
Civil Engineering (B.S.) – Environmental Focus **GPA: 4.0** May 2020

RECENT WORK EXPERIENCE

J.R. Simplot Company Pocatello, ID
Environmental Engineering Intern Summer 2019

- Worked on the environmental team at a fertilizer plant producing over 1,000,000 tons of phosphate fertilizers and feed products annually
- Monitored groundwater and surface water discharge of nitrogen and phosphorous as part of remediation efforts on an active Superfund site

Rocky Mountain High Adventure Base Poncha Springs, CO
Head Mountain Guide & Climbing Director Summer, 2016-2018

- Managed day to day operations for an mountain guiding outfitter servicing 1,000+ clients over seven weeks during the summer
- Trained and managed a staff of 9 mountain guides to lead youth on backpacking treks, rock climbing excursions, and mountain bike trips
- Served as the camp's chief medical officer, administering first aid and ensuring proper adherence to safety guidelines on program and at camp

PROGRAMMING PROJECTS

- [Personal Website](#): A built-from-scratch website I created to host my full project portfolio and personal blog (**Python, Django, Bootstrap, HTML, CSS, PostgreSQL, Git**)
- [Library Database](#): A command line application that allows users to store, search for, and check out books from a file-based system (**C++, File Read/Write, Data Structures, Git**)
- [Puzzle-Solving Program](#): A command line application that combines 10 common programming problems to assist users in exploring concepts like recursion, data structures, and algorithms (**C++, Git**)
- To see the rest of my smaller projects and coding exercises, be sure to check out the [Project Portfolio](#) on my website!

RESEARCH EXPERIENCE

“Legacy Effects of Nitrate Contamination in a Prairie Riparian Ecosystem”

- Lead author of a study examining the long-term effects of nitrate contamination
- Analyzed over 20 years of data (**R/Python**) and used computer modeling (**PHREEQC**) to explore geochemical trends over time and predict future changes

Awards/Recognitions

- Oral presentation at the national conference of the Geological Society of America November 4, 2018 (Indianapolis, IN)
- Awarded travel grants from KU (\$500) and the Southeast Chapter of the GSA (\$100)
- Undergraduate Research Award for Fall 2018 (\$1000) - KU

HONORS, SKILLS, AND CERTIFICATIONS

- **Major Honors**: Eagle Scout, National Merit Scholar
- **Skills**: Python, C++, R, Git, AutoCAD, Revit, ArcGIS, Spanish (proficient)
- **Certifications**: Wilderness First Responder (NOLS), BSA National Climbing Director