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Joseph L. Pickert

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EDUCATION

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

RECENT WORK EXPERIENCE

J.R. Simplot Company	Pocatello, ID
<i>Environmental Engineering Intern</i>	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
<i>Head Mountain Guide & Climbing Director</i>	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

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- [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**)
 - [NBA Player Stats Web App](#): A web-based plugin I designed for my website that allows the user to research game stats for their chosen player (**Python, Django, API Fetching, Git**)

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)

HONORS, SKILLS, AND CERTIFICATIONS

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- **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