

BURKELY PETTIJOHN

SOFTWARE ENGINEER

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in [burkelyp](#) 🔗 [burkelyp](#)

SUMMARY

An aspiring software engineer with a strong foundation in science and the scientific method. I have a strong passion for self-growth and problem solving. Currently seeking an internship in data science to utilize my strengths and build new skills in a team with aligned goals.

EDUCATION

Oregon State University 2023 - Present

BS Computer Science

Texas A&M Health Science Center 2018

MS Medical Sciences

focus: Structural Biology & Biochemistry

Texas A&M University 2014

BS Marine Science

summa cum laude (GPA: 4.0/4.0)

EMPLOYMENT

Marathon Petroleum Texas City, TX

Laboratory Technician 2019 - 2023

Performed analytical testing to ensure quality control of refinery operations. Verified accuracy of instruments and troubleshoot issues. Data entry and instrument control carried out in LIMS sample manager, QC/Plus, and OpenLab.

EMT 2022 - 2023

Served on Marathon's Emergency Response Team as a nationally certified EMT.

Texas A&M Health Science Center College Station, TX

Research Assistant 2015 - 2019

Researched how proteins cross membranes. Developed experiments using techniques such as: plasmid prep, protein purification, labeling proteins with fluorescent probes, and fluorescence microscopy to observe biophysical experiments.

Texas A&M University Galveston, TX

Undergraduate Researcher 2011 - 2014

Researched turbulence in water columns. Wrote grant proposals for funding. Helped deploy sensors into water columns which accumulated into giant data sets. Analyzed the data in MATLAB to characterize the intensity of turbulence. Was published through the university and presented my findings at research symposia.

Supplemental Instructor 2012 - 2013

Instructed a supplemental General Chemistry course.

Award: Most outstanding supplemental instructor

CERTIFICATE

Bootcamp: Data Analyst in Python June 2022 - Feb. 2023

I learned general programming techniques, data cleaning and processing, how to tell a story with visualizations, probability and statistics, and hypothesis testing. In SQL, I learned how to work with data sources, how to write queries, and how to handle multiple datasets. The course also included an overhaul of working from the command line and an introduction to Git and GitHub integration.

SKILLS

PROGRAMMING: Python 3, MATLAB, SQL, Jupyter Notebook, Excel, GitHub, Linux, Command line