James Taylor

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Skills

Technical Skills Python(Pandas, NumPy, Matplotlib, Plotly), React, Redux, JavaScript(Plotly.js, Node.js), HTML5, CSS, SQL, MongoDB, LaTeX

Hard Skills Data Analysis, Data Clean Up, Data Visualization, Numerical Analysis

Soft Skills Active Listening, Critical Thinking, Teamwork, Empathy, Problem Solving, Technical Documentation

Work Experience

Intel Cooperation

Process Engineer — Chandler, AZ (Summer 2019 - Present)

- Developed a full stack data dashboard using React, utilizing Redux for state management and Node.js for the backend.
- Develop applications in Python to analyze and visualize data from a SQL or MongoDB database.
- Implement version control through Git to streamline projects with multiple contributors.
- Create process engineering reports used in cross department task forces
- Acted as a Python consultant for other teams, offering input on improving their utilization of Python.

Mesa Community College

Lab Assistant — Mesa, AZ (August 2017 – August 2018)

- Perform maintenance and calibrations of laboratory equipment, such as pH meters, melting-point apparatus and burettes.
- Issue laboratory equipment and chemicals to students.
- Set up experiments in the laboratory for various chemistry classes.
- Prepare reagents used by students in college level chemistry labs.

Education

Arizona State University — *Summer 2020*
Chemical Engineering, B.S.E. — Overall GPA: 3.38
Minor in Computational Mathematical Sciences

Mesa Community College — *Fall 2017*
Associate of Science — Overall GPA: 3.9

Research

Hopper Research Project (August 2018 – August 2019)

- Perform hopper flow tests of glass beads to find the relationships between bead characteristic, discharge time and particle distribution.
- Characterize glass beads and hopper surfaces through Atomic Force Microscopy.
- Design and create, laboratory scale hoppers using 3D printing.
- Presented in Spring 2019 ASU FURI research symposium.

Jojoba Oil Research Project (May 2017 – August 2018)

- Purify reaction products through various purification techniques, such as flash and analytical thin-layer chromatography.
- Conduct thorough documentation of daily laboratory work.
- Presented research in front of an audience of faculty and students of Mesa Community College.

Certifications

- SAChE Levels 1 and 2 safety certifications.