

JACOB WARMFLASH

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EDUCATION

Willamette University, Salem, OR

Masters of Data Science

Awards: Trustee Scholarship

August 2024

GPA 4.0/4.0

Lewis & Clark College, Portland, OR

Bachelor of Arts, Major in Mathematics, Minor in Computer Science

Awards: Trustee Scholarship

May 2021

GPA 3.8/4.0

SKILLS

Technical: Data Analysis/Visualization (R, Python), SQL (PostgreSQL), Python (Numpy, Pandas, Seaborn), Machine Learning (scikit-learn), Data Engineering, R, Statistical Analysis, Power BI, LLM Prompt Engineering, C, Java, HTML, CSS, Microsoft Office
Languages: Spanish (Conversational)

RELEVANT PROFESSIONAL EXPERIENCE

Intel Corporation, Hillsboro, OR

March 2022-July 2023

Manufacturing Technician

- Achieved 100% issue resolution rate of four wafer manufacturing machines within chip assembly line
- Took ownership of silicon wafer x-ray process, working directly with engineers to troubleshoot and update the process of ensuring the integrity of attached die, resulting in improved reliability and consistent end product production
- Improved training speed and efficiency for the operation of the XM8000 DWX wafer x-ray by overhauling a technical operation manual and conducting comprehensive training for fellow technicians

Lewis & Clark College, Portland, OR

January 2021-May 2021

Computer Science Teaching Assistant

- Provided individualized tutoring and feedback to students in intro computer science course, inside and outside of class, ensuring a strong understanding of core concepts.
- Enhanced learning outcomes for twenty five hybrid online students by actively supporting and assisting Professor during instructional periods, working individually with students to ensure full understanding of material
- Developed tailored practice problems to address individual challenges and reinforce key concepts, fostering student success and comprehension

Modern Testing Services, LLC., Norwood, MA (Remote)

July 2020-September 2020

Data Entry Contractor

- Accurately transferred data from existing CDC Chemical guides to company's proprietary spreadsheet platform
- Congregated and cleaned over ten thousand data points, facilitating comprehensive analysis and informed decision-making processes
- Presented progress in weekly meetings with team members and CEO, ensuring transparent communication and consistency of project objectives

Yes for Affordable Housing, Portland, OR

August 2018-November 2018

Data Entry and Office Assistant

- Processed information for hundreds of supporting businesses and organizations, accurately synthesizing and cleaning data on their pledges in local spreadsheet
- Help around campaign office where needed, including putting together lawn signs and preparing letters to be mailed out
- Contributed to the successful passage of Yes for Affordable Housing, local Measure 26-199 and State Measure 102 during the November 2018 election

Portland Clean Energy Initiative, Portland, OR

July 2018-November 2018

Data Entry and Canvassing

- Effectively communicated with hundreds of Portland residents, engaging them in discussions about ballot measure and local politics
- Consolidated and accurately processed confidential voter information for over 500 voters, maintaining 99%+ accuracy by following strict guidelines to ensure data integrity
- Contributed to the successful passage of Portland Clean Energy Initiative as local measure 26-210 in November 2018 election

PROJECTS

Traffic and Weather Analysis

May 2024

- Scraped information from API, set up automatic cleaning schedule in PostgreSQL using Railway.app
- Utilized data ingestion, transformation, and cleaning, to setup database in third normal form
- Analyzed and visualized database, providing conclusions to support a research question outlined in project

Hotel Machine Learning Model

April 2024

- Analyzed hotel dataset and implemented machine learning models to predict customer cancellations
- Utilized Random Forest model, Logistic Regression, PCA, K mean clustering, cluster analysis, and feature selection
- Built with Python Sci-kit learn library, employing encoders, transformers, pipelines, and confusion matrices

Kickstarter Project Statistical Analysis

December 2024

- Analyzed big data Kickstarter project dataset detailing information of over 500000 projects published on Kickstarter
- Statistical analysis with hypothesis testing including one and two proportion z-tests, residual analysis, time series analysis, and EDA
- Conducted in R using R-studio, using tidyverse with ggplot2 for data visualization