

John F. Fessler

Data Scientist and Full-Stack Engineer

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PROFESSIONAL SUMMARY

A multi-talented professional with a diverse background in natural sciences, data science, computer science, and team leadership, seeking a position as a data science professional, with hands-on experience in AWS, IBM Cloud, and Github. Proficient in Python, SQL, and JavaScript, recently receiving the Google Advanced Data Analytics Certificate and IBM Data Science Professional Certificate. A Certified AWS Developer with a passion for data-driven solutions and a strong foundation in full stack development.

TECHNICAL SKILLS

- **Languages:** Python, SQL, Javascript, HTML5, CSS, C++, MATLAB, R, Julia
- **Frameworks/Libraries:** React.js, Node.js, Firebase, Supabase, Chakra UI
- **Tools/Platforms:** AWS, GitHub, Linux, Netlify, VSCode, Tableau, IBM Watson Studio, RStudio, Mostly.ai, Columns.ai, ChatGPT
- **Certifications:**
 - Google Advanced Data Analytics Certificate | [Certificate](#) | Nov 2024
 - IBM Data Science Professional Certificate | [Certificate](#) | Aug 2024
 - AWS Certified Developer - Associate | [Certificate](#) | Apr 2023
 - AWS Certified Cloud Practitioner | [Certificate](#) | Feb 2023
 - Python Bootcamp | [Certificate](#) | Jan 2023

TECHNICAL EXPERIENCE

Google Advanced Data Analytics Capstone Project | [Summary](#)

Nov 2024

- Completed a multistep classification machine learning model project following the PACE project framework.
- Inspected, cleaned, and transformed data using Pandas and Numpy.
- Produced statistical and exploratory data analysis and model evaluations with Matplotlib, Seaborn, SciPy, and SciKit Learn.
- Implemented a Random Forest and XGBoost model, producing a final product of a trained, validated, and tested Random Forest classification model with a 98% Accuracy.

IBM Data Science Capstone Project | [Presentation](#)

Aug 2024

- Performed data collection, wrangling, and cleaning from APIs and web scraping using Pandas and NumPy libraries.
- Conducted exploratory data analysis using SQL, spatial data mapping with Folium, data visualizations, and HTML dashboard with Matplotlib, Seaborn, Plotly, and Dash.
- Implemented machine learning models (Logistic Regression, Decision Tree, SVM, k-Nearest Neighbors) with GridSearchCV for hyperparameter tuning, evaluating models using scikit-learn.

Instagram Clone Project Developed an Instagram clone using React.js, Firebase, and Chakra UI. | [Website](#)

Aug 2024

Portfolio Website: Built using HTML5, CSS, and JavaScript. Deployed on Netlify. | [Website](#)

April 2023

Personal Projects: Developed various Python and web applications | [Tic Tac Toe](#) | [Repository](#)

PROFESSIONAL EXPERIENCE

Data Scientist

Sept 2023 - Present

- Studying machine learning projects and tutorials through YouTube.
- Completed the Google Advanced Data Analytics Certificate and IBM Data Science Professional Certificate on Coursera.
- Built capstone projects, gaining skills in: supervised and unsupervised machine learning, artificial intelligence, exploratory data analysis, data visualizations, statistical analysis and testing, and data collection, cleaning, and transformation.

Python and Web Developer

July 2022 - Present

- Completed a Python Bootcamp through Udemy to enhance Python programming skills.
- Gained AWS certifications, specializing in cloud development.
- Developed expertise in Full Stack development, serverless cloud deployments, and CI/CD pipelines.

Previous Experience

- **Restoration Technician/Crew Leader** | Prunuske Chatham Inc, Sebastopol, CA Dec 2021 - May 2024
- **Teller and Security Worker** | Petaluma Pumpkin Patch, Petaluma, CA Feb 2017 - Oct 2022
- **Assistant Carpenter** | Rusty Mila Construction, Santa Rosa, CA Nov 2018 - Dec 2021
- **Field Assistant** | Marin/Sonoma Mosquito & Vector Control District, Cotati, CA Mar 2018 - Oct 2018
- **Fisheries Technician I** | Pacific States Marine Fisheries Commission, Santa Rosa, CA Mar 2017 - Dec 2017

EDUCATION

Bachelor of Arts in Marine Science | University of California, Berkeley

Dec 2016

Associate in Arts in Mathematics (Highest Honors) | Santa Rosa Junior College

May 2014