

# John F. Fessler

## Data Scientist and Full-Stack Engineer

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### PROFESSIONAL SUMMARY

Multi-talented professional with a diverse background in natural sciences, computer science, and team leadership. Transitioning into Data Science with hands-on experience in AWS, IBM Cloud, and conservation science. Proficient in Python, SQL, and JavaScript, recently receiving the IBM Data Science Professional Certificate. A Certified AWS Developer with a strong foundation in full stack development, serverless cloud deployments, and CI/CD pipelines, coupled with a passion for data-driven solutions.

### 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, IBM Watson Studio, RStudio, Mostly.ai, Columns.ai, ChatGPT
- **Certifications:**
  - IBM Data Science Professional Certificate | [Certificate](#)
  - AWS Certified Developer - Associate | [Certificate](#)
  - AWS Certified Cloud Practitioner | [Certificate](#)
  - Python Bootcamp | [Certificate](#)

### TECHNICAL EXPERIENCE

#### 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 | [Website](#) Aug 2024

- Developed an Instagram clone using React.js, Firebase, and Chakra UI.
- Implementing user authentication, real-time database functionalities, and styling components.
- Applying state management and integrating RESTful web services for CRUD operations.

#### Portfolio Website: Developed using HTML5, CSS, and JavaScript. Deployed on Netlify | [Website](#) April 2023

#### Web Application for Data Distribution: HTML5 and CSS based application connecting users to email marketing | [Website](#)

#### Full Stack Web Application: Utilized Node.js, JavaScript, HTML5, CSS, and Supabase. Deployed using Netlify. | [Website](#)

**Personal Python Projects:** Developed various Python applications including a Password Manager, Rock Paper Scissors Game, Number Guessing Game, Quiz Game, Blackjack Game, and Tic Tac Toe Game.

### PROFESSIONAL EXPERIENCE

#### Data Scientist Sept 2023 - Present

- Studying machine learning projects and tutorials through YouTube.
- Completed IBM Data Science Professional Certificate on Coursera, focusing on machine learning techniques for rocket landing prediction.

#### 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.
- Expanded knowledge in mathematical modeling with MATLAB and explored Julia for scientific computing.
- Worked on web development projects, focusing on application development, database management, and version control

#### 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 March 2018 - Oct 2018
- **Fisheries Technician I** | Pacific States Marine Fisheries Commission, Santa Rosa, CA March 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