TaylorBerukoffResume

Taylor Berukoff

TaylorBerukoff@gmail.com | LinkedIn.com/in/taylor-berukoff | (562) 826-1345
Publications: Medium.com/@taylorberukoff
Portfolio: tsb1995.github.io/portfolio

Work Experience

CACI (NAVSEA Corona Contract) — May 2022-Current

*Data Analyst (**Clearance**: Secret)* — *Corona, CA*

- Leveraged Python (Pandas, Numpy, Plotly) to clean and transform raw data into actionable datasets, visualizations, and products to support critical decision-making.
- Built and maintained documentation for tools and scripts using a Confluence team workspace.
- Collaborated as part of the Agile Scrum development process, utilizing Jira software suite to streamline project management.
- Optimized configuration management by spearheading a transition from Excel to JSON with Tabulator JS editing, resulting in space savings and improved processing and debug efficiency.
- Created and Led the team through a comprehensive Git training program, empowering teams with feature branching for enhanced script development efficiency.
- Performed analysis on data from the Aegis defense system to create timely and comprehensive data reports to Navy leadership, facilitating informed decision-making and strategic planning.

Revolution Prep — November 2020 - May 2022

Computer Science and Mathematics Instructor — *Santa Monica, CA*

- Utilized teaching and mentoring expertise to develop and lead Mathematics and Computer Science courses, resulting in a student retention rate of 95%+.
- Engaged and communicated with clients to ensure exceptional instruction and achieved an average 4.9 star client satisfaction rating.

Skills and Interests

- **Programming Languages:** Python (Pandas, MatPlotLib, Plotly, Numpy, SciKit-Learn, Tensorflow, Django), SQL, AWS, Bash, HTML & CSS, Git CLI
- **Skills**: Active Listening; Organization; Punctuality; Written Communication; Problem-Solving; Time Management; Empathy; Patience; Troubleshooting, Verbal Communication
- **Interests:** Reading (Fantasy and Sci-fi); Cooking; Martial Arts (BJJ); Board Games; Music; Writing; Guitar

Publications

- **Deploying Machine Learning Models on Live User Webcam Feeds using TensorFlow.js** | May 2022
- **Core Data Science and Machine Learning Resources** | May 2022
- **Using SCSS/SASS with Django3** | May 2022
- **Hosting Django on AWS Beanstalk AL2** | April 2022
- **Version Control with Git** | March 2023

Education

California State University, Long Beach

BS, Mathematics — *December 2018*

- Dean's Honor List; President's Honor List; 3.67 GPA

Certifications

- **CS50** | *Harvard* | Jan 2021
- **Machine Learning** | *Stanford* | Jan 2021
- **AI for Javascript Developers** | *Google* | March 2022
- **Relational Databases** | *FreeCodeCamp* | April 2022
- **Version Control with Git** | *Atlassian* | December 2022
- **Basic Radar Concepts** | *Georgia Tech* | April 2023

Personal Projects

- **Zillow Home Data Pipeline**
  - Developed a project for a small real estate business looking to improve their day-to-day data pipeline. Sample of code at **tsb1995.github.io/portfolio/zillow**.
  - Used Python's Pandas library to clean and process a CSV file of potential homes for purchase, removing unwanted data and adding new columns using the Zillow API (Zestimate, lot size, year built, etc).
  - Created a Google Sheets file using the Google API, providing the client with an easy-to-use interface for working with the cleaned and processed data (the client did not enjoy working with excel files).
  - Improved the efficiency of the client's data pipeline, enabling them to make better-informed decisions about potential real estate investments.
  - Applied expertise in data analysis and API integration to deliver a successful project that met the client's needs and exceeded their expectations.
- **Django Web App - Calculus Toolkit**
  - Built a web application using a Django and Flask based backend which acts as a toolkit for solving and understanding an introductory calculus course. This application is currently hosted via AWS using an Elastic Beanstalk driven environment and can be found like at **taymath.elasticbeanstalk.com.**
  - Integrated knowledge of Calculus and tools found within the SymPy Python library to automate, explain, and visualize common Calculus tasks.
  - Created dynamic visuals using the versatile MatPlotLib plotting library
  - Implemented classes from BootStrap HTML library to create a clean, user friendly, and mobile friendly user interface and experience.
- **Interactive Web Application with TensorFlow.JS**
  - Developed an interactive web application using TensorFlow's JavaScript library, deploying a range of machine learning algorithms to provide real-time object classification and facial recognition. Sample of code at **tsb1995.github.io/portfolio/tfjs**.
  - Applied the famous CoCo and BlazeFace pre-trained models to generate real-time object classification and facial recognition feeds, respectively
  - Built a custom convolutional neural network using TensorFlow in Python, training it on the MNIST handwritten digit dataset and transferring it to a TensorFlow.JS compatible format for integration into the web application
  - Demonstrated expertise in machine learning and web development by creating a unique and engaging interactive experience that showcased the capabilities of TensorFlow.JS
  - Delivered a successful project that exceeded the expectations of users and showcased the potential of machine learning in web applications.
- **Assorted Machine Learning Projects**
  - Built a collection of Data Science and Machine Learning focused projects which can be found at **GitHub.com/Tsb1995/MLProjects.**
  - Trained and tuned an SVM based classification model for breast cancer detection to 96% accuracy
  - Constructed multiple Regression models (Random Forest and Neural Network) and created a subsequent Ensemble model to predict housing prices based on Kaggle’s housing dataset

Tab 2