

Marvin Jakobs

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EDUCATION

- The Pennsylvania State University** State College, PA
Data Sciences - College of Information Sciences and Technology August 2020 - May 2024
Semester Abroad - Rochester Institute of Technology, Croatia
Courses: Data Science 1-4, Computer Science 1-2, Calculus 1-2, Statistics 1-3, Data Integration, and Machine Learning

SKILLS SUMMARY

- Languages:** Python, R, SQL, JavaScript, Solidity, Scala
- Libraries:** Sklearn, Matplotlib, Pandas, NumPy, Beautiful Soup, Git, PyTorch, Web3js
- Tools:** Salesforce, RStudio, SQLite, Jupyter, Tableau
- Soft Skills:** Teamwork, Writing, Speaking, Problem-solving

EMPLOYMENT HISTORY

- Cencora (formerly AmerisourceBergen)** Conshohocken, PA
Customer Relationship Management Intern Jun 2022 - Aug 2022
 - Worked with the IT team to export and document metadata and UI/UX for multiple permission sets in production. Gave suggestions for field and flow updates. Became proficient in **Salesforce** and used **SQL** and **Excel**.
- STM** Remote
Blockchain Intern September 2021 - May 2022
 - Automated and maintained **JavaScript** bots that read data from the blockchain and provided real-time alerts. Provided technical support and integration for the ImmutableX chain, and conducted **front-end** web development.
- College of IST, Penn State** State College, PA
Summer Research Assistance May 2021 - September 2021
 - Researched anomalies in global wildlife trade and illegal seizure data using **Python** tools. Cleaned and spatially clustered data to recognize patterns and modus operandi of poachers/illegal wildlife traders.
- App Developer** Remote
Freelance April 2018 - July 2020
 - Developed and sold both iOS and Android apps. Used Unity with **C#** for Amazon, and **XCode** with **C++** for iOS. Auctioned the rights to several apps on Flippa, used Google AdSense, and ran Instagram ads to market.

PUBLICATIONS

- An Analysis of Wildlife Seizure Data Distributions using Spatial Clustering:**
Presented at Tanzania Wildlife Research Institution Conference, December 2021 (Co-authored with Faizan, Kalidindi, Mitra, and Kinyua)

TOP PROJECTS

- Ocean Trash Detection:** Developed a ML system using Sentinel-2/Landsat-8 imagery and CNN models like **ResNet50** to detect marine pollution. Integrated Hugging Face APIs for enhanced detection. Implemented a web-based visualization platform.
- Blockchain Battleship:** Developed a decentralized game on Ethereum with **Solidity** and **JavaScript**. Features included real-time messaging and gameplay mechanics, with a focus on smart contract security and frontend interaction via **Web3.js**.
- Stock Trend Prediction:** Utilized sentiment analysis on tweets and historical stock data to predict stock trends with a model accuracy of 51%. Implemented data processing and machine learning models in **Databricks**, employing VADER for sentiment analysis.
- Brain Tumor Classification:** Developed machine learning models for grading gliomas using imaging and genomic data, emphasizing algorithm selection and model accuracy. Used datasets from UC Irvine and TCGA, tested **SVM**, **Random Forest**, and neural networks.