Zacchaeus Kier

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Aspiring bioinformatics professional leveraging programming, data science, and machine learning to solve complex biological challenges

Technical Skills

Programming Languages:

- Python
- Java
- C
- C++
- SQL
- JavaScript
- R

Tools & Libraries:

- PyTorch
- Pandas
- Matplotlib
- CMD Prompt
- Unix
- Android Studio
- tidyverse

Machine Learning Concepts:

- K-Means
- KNN
- PCA
- CNNs (Convolutional Neural Networks)

Operating Systems: (Troubleshooting & Support)

- MacOS
- Windows
- Linux

Github

https://github.com/ZKier

Soft Skills

- Strong Team Collaboration
- Effective Communication
- Problem Solving & Critical Thinking

Languages

English:
Native Proficiency

Spanish:
Limited Working Proficiency (A2)

Education

Valdosta State University

Bachelor of Science | Computer Science | 05/2019 to 12/2023

Relevant Coursework:

- Created an application using **Android Studio** and **Python** that classified images using a **CNN**
- Using **K-means** I identified the amount of people in a room using a data set.
- Created a website and developed web programming skills using **JavaScript**, **SQL**, **HTML**, and **CSS**
- Familiar with **MacOS**, **Windows**, and **Linux**, enabling efficient troubleshooting and support.
- Practiced with **Java**, **C** and **C++** through various projects.

Work History

Raintree Village

Emotional Intervention Specialist | 08/2023 to CURRENT

- Worked with Teens ages 12-18 with **communication** and interpersonal skills.
- Supported Teens with **Math** and Computer Science information and help.

Valdosta State University

Lab Assistant | 10/2024 to CURRENT

- **Co-Authored** "Gene Flow of Peanut snails (Cerion) in the Florida Keys"
- Developed **R** programming, **CMD prompt**, and **Unix** understanding by plotting data and pulling information from other databases.
- Developed **bioinformatics** and biology understanding.
- Utilized **wet lab** skills.

Personal Projects

Exploring an CDC Alzheimer's dataset | 12/2024 to CURRENT

- Analyzed CDC Alzheimer's dataset of >200,000 rows, generating insights on dietary patterns and obesity correlations.

Family Tree Database | 8/2024 to CURRENT

- Developing a simple Java-based application to track and organize familial data and history.

Achievements & Certifications

- Co-authored research publication on gene flow.
- Developed multiple programming and machine learning projects.