Paul Pedrozo

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WORK EXPERIENCE

Amazon Web Services   Jan. 2022 – Present
Cloud Engineer
- Architect and troubleshoot ETL pipelines for customers using AWS Glue, Athena, and MWAA, resulting in improved data quality and performance
- Increase DevOps productivity by creating automated tools and workflows, resulting in a 15% boost in productivity
- Design and implement a web application for mentors and mentees, streamlining the mentorship process and improving communication between participants
- Conduct code reviews and offer feedback to improve overall code quality, reducing bugs and errors

University at Buffalo Computer Science Department   Sept. 2019 – Dec. 2019
Software Programmer
- Developed a back-end system using OpenCV and Python to accurately track vehicles on highways and measure their speeds, improving traffic monitoring capabilities
- Refactored the code to enable live streaming of vehicle tracking through multiple traffic cameras simultaneously, expanding the system's capabilities beyond analyzing a single locally saved video
- Delivered a proposal to the university to implement the vehicle tracking technology, which would mitigate and predict traffic jams on university bus routes, improving transportation efficiency and reducing carbon emissions

Projects

budgetApp   Jan. 2023 - Present
Developing a personal finance app using React Native that uses a 50/30/20 model (Wants/Needs/Savings) to help users manage their income and expenses. The app allows users to input their income, set budgets for each category, and track expenses in each category. This project helps users gain better control over their finances and make informed financial decisions.

Text to Image Generator   Sept. 2022 - Present
Developing a Python-based image generator using Stable Diffusion and Diffusers models. Clients will be able to send API calls to the service, which generates an image and uploads it to their S3 storage.

NYC Pollution Analysis   Jan. 2021 - Jul. 2021
Conducted data analysis on New York City's 2019 greenhouse gas emissions using Python, Pandas, and Seaborn. Analyzed the dataset to identify patterns and trends in emissions, and visualized the findings using Seaborn plots. This project contributed to a better understanding of the city's environmental impact.

EDUCATION

University at Buffalo, The State University of New York   Aug. 2018 - Dec. 2021
Bachelor of Science, Computer Science   *Buffalo, NY*

CERTIFICATIONS, SKILLS, & INTERESTS

- **Languages & Libraries:** Python, SQL, React, React Native
- **Tools:** Git, Github Actions, Terraform, REST API
- **Certifications:** AWS Certified Cloud Practitioner, AWS Certified Solutions Architect - Associate
- **Interests:** Cooking, Baking, Boxing