Alexander Lacson

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Technical Skills

- **Programming and Markup Languages** : Python | SQL | Markdown | HTML/CSS
- **Python Libraries** : pandas | Matplotlib | Seaborn | Plotly | scikit-learn | Natural Language Toolkit | SciPy | NumPy | Beautiful Soup | Requests | Flask
- **Data-related Skills** : Importing Data from Various Sources | Interacting with REST and GraphQL APIs | Data Cleaning and Wrangling | Exploratory Data Analysis | Interactive and Static Data Visualization | Machine Learning | Dashboard Apps with Plotly Dash
- **Software Tools and Platforms** : Git and GitHub | Tableau Public | Visual Studio Code | Jupyter | Kaggle | Sphinx | diagrams.net
- Experience with **Google Cloud**

Work Experience

January 2023 - September 2023 | **Mapa Web Development** | Software Developer

- Collaborated closely with a fellow software developer, who was new to the role, to develop a mobile app. We utilized Flutter for the mobile client, Python Flask for the back end, used DragonPay for payment processing, Firebase for authentication, and Firestore for the database.
- Provided all the necessary requirements for successful acceptance and deployment of the app to the Google Play Store and Apple App Store
- Orchestrated the setup of separate local, development, and production environments for controlled development and testing processes
- Implemented CI/CD pipelines using GitLab and Docker for the back-end services, achieving high test code coverage and detailed documentation
- Managed Google Cloud infrastructure, ensuring cost efficiency, permissions, and security measures

April 2022 - July 2022 | **Includovate** | System Engineer

- Established connections between low-level and high-level boards on Monday.com
- Created a Workload dashboard that provides visual information allowing you to determine which team members are under or overloaded.
    - Gets its data from Google Workspace, Google Calendar, and Monday.com and updates every time the page is refreshed.
    - Built using Plotly Dash,
    - Deployed on Google App Engine
    - Has access control using Google Identity-Aware Proxy

Open-Source Contributions (GitHub Handle: max-torch)

Time Tracker | Pazitos10/time-tracker | Time-tracking application written in Python

- Authored code that allows the app to generate data visualizations from the user's data (View pull request on GitHub)

Battle For Wesnoth | wesnoth/wesnoth | Cross-platform, turn-based fantasy strategy game

- Proofreading, improvements, and additions to in-game dialog and text
- Suggested and implemented some feature enhancements to campaign scenarios
- Closed some issues with the in-house developer tools
    - Had to install an Ubuntu OS in a Hyper-V Virtual Machine in order to verify that fixes and features were functional in Linux as well as Windows
- Learned how to work with the in-house programming language known as WML by reading the project documentation, looking at examples in the existing codebase, and communicating with the current Project Development Team on Discord
- Learned how to work with in-house developer tools written in Python

Selected Project Highlights

- Created a Shopify Private App that fetches data from a Shopify Store using Shopify's Rest Admin API and presents a dashboard containing aggregated data to the user (View repository on GitHub)(View Sample App)
- Authored a Medium Article called "Make Others Want to Work with Your Code" that was selected for further distribution by Medium's curators
- Explored, and analyzed with machine learning, data from the online dating platform OKCupid as a portfolio project while going through courses on Codecademy (View blog article)
    - Machine learning algorithms showed that describing one's body as "curvy" was a strong predictor that a user was female

Informal Education

- Codecademy Computer Science Career Path | August 2020 - November 2020
- Codecademy Data Scientist Career Path | November 2020 - June 2021
- Kaggle 30 days of Machine Learning | August 2021 - September 2021
- Self-learning from online articles, videos, and projects | September 2021 - April 2022

Formal Education

- University of St. La Salle | Bachelor's Degree in Electronics Engineering | 2013 - 2016
- Technological University of the Philippines | Electronics Engineering Technology | 2009 - 2012

Additional Accomplishments

- Topped the Philippines Electronics Technician (ECT) Licensure Exam April 2017
- Finished the ten speeches Competent Communicator Path of Toastmasters International

Fun Fact: This resume is itself a coding project. Initially, it was written in Markdown. Next, it was converted to HTML using a VSCode extension. Next, it was stylized and converted into a PDF using a Python script and a CSS stylesheet. Finally, Git version control is used to manage the different versions of my resume I send to different employers. (View repository on GitHub)