Jeremiah L. Fernandez

 linkedin.com/in/jeremiahfernandez97

 jeremiahfernandez97@gmail.com

 jeremiahfernandez97.github.io

 +639121538069

A web developer and amateur musician, learning Data Science and Machine Learning

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EXPERIENCE

○ **Junior Developer – Contract**, *Webseeds Inc.* (Dec. 2022 – Mar 2023)
- Domain and hosting management (Netlify, Video, Cloudflare)
- Uptime monitoring (Pingdom + Automated testing)
- Execute high performance design (Minimal use of libraries)
- Conduct cross-browser compatibility and bug testing

○ **Senior Creative Developer**, *Wideout Workforces Inc.* (Jan. 2022 – April 2022)
- Converted raw assets provided by clients into rich media ad and web page executions.
- Translated requirements, graphic designs and specifications into working ads using the core technologies prescribed by the clients, such as Adobe Animate and NEXD.
- Resized and revised rich media ad units.

○ **Creative Developer**, *Wideout Workforces Inc.* (June 2019 – Dec. 2021)
- Collaborated constantly with requestors and teammates for brainstorming.
- Developed, maintained and updated web apps and microsites using provided tools.
- Built custom functionality (whenever needed) using HTML, CSS and Javascript.
- Debugged and troubleshooted related issues, provided support for crucial live projects.

○ **Web Development Intern**, *FFUF Manila Inc.* (April 2018 – June 2018)
- Designed and developed a web application called FFUF Dashboard. This application requests employee, team and project data from the company's internal API, which then could be filtered accordingly and visualized using graphs.

SKILLS

○ HTML, CSS & JavaScript
○ JSON/SQL databases
○ APIs and microservices
○ jQuery/similar libraries
○ React/similar web frameworks
○ State management with Redux
○ Back end scripting using PHP, Node.js
○ Version control with Git
○ Data visualization with Matplotlib and Seaborn
○ Data wrangling with Pandas and NumPy
○ Natural language processing with SpaCy
○ Machine learning with Scikit-learn
○ Creating data apps with Streamlit
○ Exploratory data analysis
○ Using Jupyter Notebooks

EDUCATION

○ **Eskwelabs Data Science Fellow**, *Eskwelabs* (May 2022 - Sept 2022)

Worked in teams for a total of four, two-week sprints and one capstone project, while learning to use different Python data science and machine learning libraries for the following case studies:

Sprint 1: *"Pamumuhay: An Analysis on the Living Conditions of the Filipino People"*
Conducted data wrangling and exploratory data analysis on the 2017 Demographic and Health Surveys Program Dataset, to aid in profiling the various living conditions of people across the Philippines.

Sprint 2: *"Artist4Artists: Maximizing Streams Across VIVA Records"*
Applied time series analysis to investigate possible patterns and events that could have caused an artist's rise in popularity, based on music streaming data extracted via the Spotify Web API for Python.

Sprint 3: *"Intel Debrief: Fraudulent Activity in the Philippines"*
Utilized SHAP and LIME to explain a fraud classification model, which describes which features have the strongest influence in classifying a transaction as fraudulent.

Sprint 4: *"Post-Halalan 2022: A Twitter Presence Analysis"*
Implemented time series, sentiment analysis and topic modeling on a dataset scraped from Twitter using Twitter Intelligence Tool (TWINT), provided valuable insights on how media and public sentiment changed, from before to after elections.

Capstone Project: *"Road to Zero Poverty: A ML Approach to Alleviating Poverty"*
Trained a K-Means clustering model as a key component to help formulate potential poverty solutions, to be allocated throughout Cabanatuan City.

○ **Bachelor of Science in Computer Science**, *Mabini Colleges of Daet* (April 2019)

Received commendation for the senior project "*Sentiment Analysis on Non-Academic Services of Mabini Colleges, Inc.*", built upon web technologies, with data extracted via Facebook Graph API, and processed using Text Sentiment Analysis Method API and Yandex Translate API.

REFERENCES

Keith Miguel Laguit
Creative Lead
Wideout Workforces Inc.
+639279479766
keith.laguit@wideout.com

Francesca Anne Martin
Project and Engagement Manager
(Creative Department)
Wideout Workforces Inc.
+639663313778
francesca.martin@wideout.com

Dhee Jee Ann Pusing
Data Science Mentor at Eskwelabs
Data Analyst at Caspo Inc
+639455619445
djafpusing@gmail.com

Gerard Lorenz Maandal
Co-fellow at Eskwelabs
Data Science Fellowship Cohort 9
+639275805632
gelomaandal@gmail.com