Trang Le

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Skills

Languages: Python, R, SQL, Java, PHP, Javascript, HTML/CSS.

Databases: MySQL, MongoDB, SAP HANA.

Tools/ Libraries/ Technologies: Linux, Git, GitLab, Docker, AWS, Pytest, FastAPI, ElasticSearch, Pyspark, REST APIs, OpenCV, NLTK, Spacy, Pytesseract, Scikitlearn, Pandas, Numpy, Pytorch, Keras, Selenium, BeautifulSoup, Datagrip, NoSQLBooster, Microsoft Office.

Education

2016 - 2020 **M.S. in Software Engineering**, University of St. Thomas, MN

2011 - 2015 **B.A. in English Language Teaching**, Hue University, Vietnam

Experience

09/2021 - **Jr Data Engineer - Flexshopper, FL**

- Developing an end-to-end Python-based production service using web framework FastAPI to prevent potentially risky applications.
- Collaborating with the team to build our next generation of business intelligence suite and perform ad hoc data analysis using SQL and MongoDB to analyze high-volume, high-dimensionality data from various sources.
- Recreated a machine learning model to construct customer performance analysis for credit policy change.

05 - 09/2021 **Software engineer intern - Smartcare Software, WI**

- Integrated a background checks API into the platform and managed the process from end-to-end. Performed testing as well as monitoring in production environment.

01 - 05/2021 **Business Intelligence and Process Improvement Intern - Minnesota Historical Society, MN**

- Assisted with migration of legacy systems and helped the team design, develop, and communicate modern infrastructure and processes. Worked on the backend with authentication and authorization.

02 - 08/2020 **Graduate Research Assistant - University of St Thomas, MN**

- Built an algorithm with neural network to identify complicated software and demonstrate its impact on software development.
- Worked on parsing classifier using NLTK, and created an identifier to test source code using ML.

Projects (Portfolio)

06/2021 ChatAway / PHP

- Developed a **real time application** that has lots of functionalities as a chat bot. Users are required to sign up to be able to interact and connect with other registered users of the app. All data is saved into the database, so users can log in with previous credentials for following loggings.
- This app is built using **PHP, Javascript, Jquery Ajax and MySQL**. It is hosted on heroku platform.

01/2020 Cancer Predictor App/ Python

- Performed an **end-to-end lifecycle** of Machine Learning development project. Achieved an impressive **90% accuracy**.
- Performed a variety of **data analysis** techniques. Built models with: **SVM, Logistic Regression, Naive Bayes, KNN, XGBoost and Decision Tree**. Employed **GridSearchCV** for **hyper-parameters optimization** and **KFold cross validation** for models evaluation.

Certificate

Deep Learning Specialization, a 5-course specialization, Coursera

- Learned foundations of Deep Learning and Neural Networks. Worked on case studies from healthcare, autonomous driving, sign language reading, music generation, and natural language processing.

Publications

- **Le, T.Q.T**. and Rege, M. "Effectiveness feature for micro-expression recognition." Proceedings of the 2021 IEEE 22nd International Conference on Information Reuse and Integration for Data Science (IRI). IEEE, 2021. **(oral presentation) .** [link]
- **Le, T.Q.T**., Tran, T.K., and Rege, M. "Dynamic image for micro-expression on region-based framework." Proceedings of the 2020 IEEE 21st International Conference on Information Reuse and Integration for Data Science (IRI). IEEE, 2020. **(oral presentation) .** [link]