Mark Vu ● [nvu.mark@gmail.com](mailto:nvu.mark@gmail.com) ● [github.com/namthatman](https://github.com/namthatman)

● +61 0452-614-807 ● [linkedin.com/in/namthatman](https://www.linkedin.com/in/namthatman/)

**OBJECTIVE**

A Software Engineering graduate with specialist knowledge at Machine Learning, looking for a data analyst/scientist position. Interested in the fields of business tech, as obtaining business insights and identifying business chances would give me the feeling of job satisfaction.

**SKILLS**

*Skills:* Python(Django, Flask), SQL, Java, C++, .NET/C#, R, React/JS, Team working, Communication

*Libraries:* Numpy, Pandas, Tensorflow, Keras, Sklearn, Pytorch, Pyspark, XGBoost, LightGBM, Bert/Roberta, Transformers/T5, Librosa

*Tools:* Anaconda, Jupiter notebook, Tableau, MS Excel/VBA, VS Code, Jira, Trello, RStudio, Git

*Courses:* Machine Learning, Data Mining & Analytics, Deep Learning, AI, Computer Vision, NLP, Database, Probability & Statistics

**WORK EXPERIENCE**

**Zalo**

*Data Scientist* *7/2020 – 10/2020*

● Conducted comprehensive analysis of music trends, music preferences to create users’s music profile for recommendation at Zingmp3.

● Optimized the performance of music recommender system by reducing the generating time of one candidate list from 6s to 2.5s.

● Performed in-depth analysis on latest NLP researches to design an internal tool of spell-checking for journalists at Baomoi (Zalo).

● Deployed the spell-checking tool to detect and fix spelling and grammatical errors in Vietnamese journals.

● Adapted new approach (Transformers/T5) to the spell-checking tool, significantly reduces checking time by half from 9s to 4.5s per 1,000 text sentences.

**TMA Solutions**

*Backend Developer Intern 7/2017 – 9/2017*

● Cleaned and integrated over 24,000 rows data of different sources from third party partner businesses.

● Created data pipeline for regular checking data quality, maintained the integrity between data warehouse and database system.

● Optimized backend code to be delivered to front-end in milliseconds, increases the effiency of API services.

**SIDE PROJECTS**

[**BOT Detection for Online Auction**](https://github.com/namthatman/Data-Science/tree/master/Facebook%20Auction%20Human%20or%20Bot)

● Predictive model used to detect if an online bid is placed by a machine or human, helped easily flag these bot users for removal.

● Feature engineering on history bid data, and ensembling models from Logistic Regression, Random Forest, GBTree, XGBoost, lightGBM to delivered excellent CV score of 0.9535 on train data.

[**GTZAN Music Audio Classification**](https://github.com/namthatman/Data-Science/tree/master/Music%20Audio%20Classification)

● Classification models used to classify music audios into genres, using 1,000 audio tracks (30s long, 22kHz Mono, 16-bit, .wav format).

● Two models are built based on different approaches: CNN model (melspectrogram images), and ANN model (sound features extraction).

[**Ames House Prices Regression**](https://github.com/namthatman/Data-Science/tree/master/House%20Prices%20Advanced%20Regression%20Techniques)

● Performed comprehensive EDAs, applied feature engineering on missing values, outliers, encoding, and skewed features.

● Achieved RSMLE of 0.0759 by ensembling models from lasso, elastic net, SVR, GBTree, XGBoost, LightGBM.

[**Movies Recommender System**](https://github.com/namthatman/Recommender-System)

● RecSys is built by ensembling 4 filtering methods: Content-based, Neighborhood-based collaborative, Matrix factorization, Neural Nets.

[**Language Adventures App**](https://github.com/namthatman/Language-Adventures)

● A scrum team project consists of a mobile application (iOS, Android), and a web-admin application.

● LA is a story-based scavenger hunting game system, with the purpose of encouraging learning languages through video game.

**EDUCATION**

**The University of Queensland** **Brisbane, QLD, Australia**

*Bachelor of Science – Computer Science* *2/2018 – 7/2020*

*Areas of Interest:* Data Science, Machine Learning. *GPA:* 5.6 / 7.0

**Ho Chi Minh University of Technology Ho Chi Minh City, Viet Nam**

*Bachelor of Computer Science 9/2015 – 6/2017*

*Awards:* Academic Dean’s List (2015 - 2017) awarded for students with excellent academic performances.