Nguyen Tat Hoa

Data Scientist

Date of birth:	Jul 08, 1995
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EDUCATION

Aug 2013 - Feb 2018

Hanoi University of Science and Technology
Major: Computer Science

WORK EXPERIENCE

Feb 2018 - Present

ML-Bigdata Engineering
- Lotus Notification Service: A recommend system and use the spring boot framework, kafka, aerospike, hbase, ... to push notifications that are most relevant to the user.

Business Intelligence:
- Analysis and prediction of Lotus user threshold
   + Based on interaction history: click, view, like, share, .. to predict the tolerance threshold for the number of notifications and the rate of displaying other users' posts on the feed.
- Search Engine:
   + Use Elasticsearch's vocabulary analyzer to index ecommerce site's product information.
   + Build search engines, suggest products from a dataset that has been stored in elasticsearch

Recommend System:
- Using sk-learning framework, building tf-idf online to propose a system that recommends top emails suitable for campain.
- Build a news classification service using SVM model.

Jun 2017 - Feb 2018

Machine Learning Researcher
- Using YOLO famework, build a model to extract where the hand appears in the image based on collected hand data.
- A model to detect and extract container truck numbers.

Dec 2016 - Jun 2017

Bigdata
Use frameworks to perform statistical problems: Hadoop Distributed File System, Spark, Pandas

SKILLS

Programming language
- Python, Java (Java core, Spring boot)
- Javascript

Technology
- Elasticsearch
- Kafka, Redis, Hbase, Aerospike

	- SQL, Mongo
IDE and Editor	- Pycharm, Intelj, Data grid
	- Sublime text 3, Visual Studio Code,

INTERESTS

I like watching movies, listening to music and playing sports like soccer, badminton, ...

PROJECTS

Lotus social
(May 2019 - Present)

Customer	VCCORP
Description	- Push personalized notifications to Lotus user based on interaction history and interests. Optimize between efficiency and annoyance.
Team size	3
My position	Developer
My responsibilities	- Analysis and design - Development - Review code - Optimize code - Bug Fixing
Technologies used	- Spring boot, Python - Firebase, HBase, Kafka, Aerospike,... - Sk-learn, SVM model

Backend e-commerce website
(May 2018 - Feb 2019)

Customer	https://gaihekitosou-hotline.com/
Description	- A service store and send information via email, sms to users in need.
Team size	2
My position	Developer Backend
My responsibilities	- Analysis and design - Development - Review code - Optimize code - Bug Fixing
Technologies used	- Spring boot - AWS (rds, ses, sns, hosting,..)

News distribution
(May 2018 - May 2019)

Customer	Newspaper Websites (VCCORP)
Description	- Real-time analysis and evaluation, selecting good articles to display on home pages of website: nld.com.cn, vtv.vn, danviet.com, ...
Team size	1
My position	Developer
My responsibilities	- Analysis and design - Development - Review code

	- Optimize code - Bug Fixing
Technologies used	- Python - Mysql, Redis

CTR prediction
(Feb 2018 - May 2018)

Customer	VCCORP
Description	- Based on interaction history on zones and banners make predictions about CTR
Team size	2
My position	Developer
My responsibilities	- Analysis and design - Development - Review code - Optimize code - Bug Fixing
Technologies used	- Python 3 - sk-learn framework: Linear Regression, Random Forest

Gender Detection
(Oct 2017 - Feb 2018)

Customer	Graduation thesis
Description	- Use deep learning to extract features from images that make predictions about the user's gender (dataset using IMDB-WIKI)
Team size	1
My position	Developer
My responsibilities	- Analysis and design - Development - Review code - Optimize code - Bug Fixing
Technologies used	- Python3 - Densely Connected Convolutional Networks (DenseNet), Tensorflow 1.0, OpenCV