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Manqing Zhou

Data Science

OBJECTIVE

- As a master student, I am looking forward to sharing my passion of being a computer engineer.

KEY SKILLS AND STRENGTHS

- Linux system: common operations on Centos 6.5 such as network, security and file management.

- Programming languages: python, R.

- Data related knowledge: warehouse, big data pipelines and spark.

- Written and oral communication: Written communication skills developed by technical report, problem solution report and daily project process report. Oral communication developed by weekly presentation.

EDUCATION

Master of Electrical and Computer Engineering

Queen's University – Kingston, Ontario   September.2018-December.2019

- Relevant courses: reinforcement learning, introduction to machine learning, wearable and IOT, cyber security

- Relevant projects(python):

  1. User identification from walking activity. The goal of this project is to identify single person through their walking habit. The whole project was written in python and consisted of pre-processing (filter and normalization), feature extraction and classifications (SVM, Decision Tree and Random Forest).

  2. Determine load in hands from EMG signal. Studied patients' moves based on their EMG signal so we can predict their next action. In the end, data was splitted into 70% training and 30% test and got the 90% accuracy score with random forest algorithm.

WORK EXPERIENCE

Network Engineer   April-October 2017

DT Dream -- Hangzhou, Zhe Jiang

Hired as a network engineer, I was lucky to participate in projects of different areas including platform engineer and data analyst.

Assistant Data Analyst

- Collaborated with senior data analyst in population data analysis using Alibaba cloud products.

- Collected population information from local government and formatted data.

- Dealt with missing and inaccurate data manually and stored them in data warehouse system.

- Integrated personal information into a fact table based on primary id (photo id) and dug the useful information using feature extraction.

- Made prediction based on feature extraction. For example, we trained our data to recognize the next criminal according to features.

Network Engineer

- Negotiated with clients about the physical address and assigned them to machine ports.

- Divided different functional areas and completed the distribution of infrastructures.

- Finished the configuration of private cloud using routing protocol and other basic operations.

Assistant Deployment Engineer

- Cooperated with colleagues to deploy the platform of private cloud in a Unix environment.

- Tested the reliability of every single cloud product in the platform and finished the test report.

VOLUTEER EXPERIENCE

- Volunteer in district library -- Every two weeks, choose four or five volunteers to the local library to assist staffs deal with customer problems and tidy books.

ADDITIONAL SKILL AND INTERESTS

Cisco Certified Internetwork Expert (#50578)   October 13, 2015

Github project: https://github.com/manqingzhou/user-identification