

XUMING (MARCO) WANG

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SUMMARY

Python full stack development, self-motivated with a strong adherence to personal accountability, good knowledge on **Statistical Models, Machine Learning, and Deep Learning** solutions to various business problems.

- **Programming Language:** Python, Golang, C++, JavaScript, and SQL
- **Data Engineering:** Cassandra, Postgre SQL, AWS RDS, S3, and AirFlow.
- **DevOps:** AWS Cloudformation, Jenkins, Circleci, Docker, and Kubernetes.
- **Machine Learning:** AWS Sagemaker, Pytorch, Tensorflow, and, and scikit-learn.

WORK EXPERIENCE

Python Developer @ White Hack Labs(Waleup LLC) May/21- Current New York, NY

- Built auto process payment backend, continuously monitoring salesforces portal to fulfill the payment and designed and implement web application for customer to view all payments made by each plugin. (MongoDB, Redis, and Python Celery)
- Developed Vue.js frontend, controlling, monitoring, and stoping the entire program.
- Developed test interface for API test, Default Code test, and Selenium Web test with Django.

Transportation Analyst @ Pantos USA Jul/20- May/21 Eaglecliff, NJ

- Implement Auto ETL pipeline and a relational database for coworkers, Handled performance requirements for databases in OLTP and OLAP models, and daily reports. And crawled data from carrier's website and auto-updated in the database; Improved KPI 20% (Selenium and Scrapy)
- Improve data renewal frequency and efficiency, developed web-based report dashboard. (MySQL, Python), Designed and implemented a physical data model to handle marketing strategies and to satisfy reporting needs dynamically

Research Assistant @ Fordham University Jun/19- Jul /20 New York, NY

- Built and trained deep learning model in Object detection and Localization, lowered the computation cost, improved inference speed and the MRI image repair quality (20% reduction in RMSE of images to images).
- Deployed the End-to-End solution independently school server, improved model inference time 70% (Flask, uWSGI, Apache, HTML, CSS, and Docker)

PROJECTS

COFFEE SHOP FULL STACK April/20-Jun/20 New York, NY

- Built the backend for a coffee shop web application and created API permission and authentication used role-based access management strategies to control different types of user behavior in the app(PostgreSQL, Auth0, JWT, Python)
- Deployed scalable containerized machine learning web application in the cluster (Flask, Docker, Kubernetes, and Ansible)

MACHINE LEARNING MICROSERVICE API IN HEALTH CARE Mar/20-May/20 New York, NY

- Designed and implemented a multibranch CI/CD pipeline performing environment setting, file linting, and unit testing (Jenkins, CircleCI, and Github).
- Tested endpoints with Postman and integrated with the front end(JavaScript, Nodejs, NPM)

PATIENT READMITTED PREDICTION Sep/18- Dec/18 New York, NY

- Reached 0.83 F1 scores. Built Pre-processed data pipeline with over 100000 records of diabetes patients, achieving EDA, cleaning and implementing appropriate feature encoding pipeline.
- Designed data modeling and transformed data from various sources into star schema optimized for analysis (PostgreSQL)
- Developed the ETL Pipeline copying datasets from raw data to database, data processing, and writing the result to S3

EDUCATION

2018-2019 **FORDHAM UNIVERSITY, GABELLI SCHOOL OF BUSINESS MS, Business Analytics** New York, NY

- Related Course: Data Mining, Machine Learning, Big data Programming, Text analytics, and Algorithms
- GitHub: <https://github.com/MarcoXM> for courses assignments and group projects

2011-2015 **GUANGDONG UNIVERSITY OF FOREIGN STUDIES BS Logistics Management** Guangzhou, China

- Course: Linear Algebra, Probability Theory, Calculus, and Database Fundamental and Application

ACTIVITIES & AWARDS

- Localized Motion Artifact Reduction on Brain MRI Using Deep Learning with Effective Data Augmentation Techniques [\[link\]](#)
- Kaggle Competition: the University of Liverpool - Ion Switching **Bronze Medal top 8% (192/2,618)**