Nae-Rong **Chang**

Bachelor of Science | Computational Data Science

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Summary

Recent college graduate majoring in Data Science with experience in developing production-ready machine learning models, conducting data visualization analysis, and managing ETL data-pipelines. Seeking to leverage my **analysis** and **data warehousing** skills to obtain the XXX position at XXX.

Skills

Programming Languages	**Python** (**Numpy**, **SciPy**, **Pandas** ,PyTorch), **R**, **Java**, MATLAB, **JavaScript**, **HTML5, CSS**
Database	**SQL** (**MySQL**,Oracle Database), **NoSQL**
Development Tool	SVN, **Git**, **SDLC methodology**(Agile Software Development), **ETL**(Jenkins)
System Development	Mac OS X, Windows Server, **Linux**, Ubuntu

WORK EXPERIENCE

December 2019 – June 2019 | **Oracle Corporation | Data Science and Quality Assurance Co-op, Conshohocken - PA**

- Developed predictive machine learning models (XGBoost, SVM, KNN) to enhance construction project management effectiveness and mitigate potential risks.
- Partnered with external clients using a consultative approach to understand their business needs, identifying the industry challenges, and provide solutions using data analysis and tools.
- Created automation scripts in Jenkins to validate data quality during the ETL process.

Python | R | MySQL | Jenkins | Linux | Git | Machine Learning | SDLC - JIRA | ETL

May 2019 – September 2018 | **Penn State Intelligent Vehicles and Systems Group | Machine Learning Research Assistant, State College - PA**

- Developed a machine learning-based (Random Forest) path prediction system in the electric wheelchair to assist people with reduced mobility.
- Generated and collected wheelchair joystick data on both physical and virtual (Unity) environments for the implementation of the intelligent hand-operating control system.

Ubuntu | Python | Unity | Git | Machine Learning

August 2018 – June 2018 | **Shanghai Commercial Bank | IT department ATM team Intern, Hong Kong**

- Assisted with user testing of systems, developed and maintained quality procedures, and ensured that appropriate functionalities were in place to conduct User Acceptance Testing.
- Implemented the full project life-cycle phases including requirements gatherings, development, and quality assurance.

COBOL | Java | User Acceptance Testing | System Integration Testing

Education

August 2020 – July 2016 The Pennsylvania State University - University Park
Bachelor of Science in Computational Data Science
Cumulative GPA: 3.30/4.00
Major GPA: 3.50/4.00
Extracurricular: Public Relations at Taiwanese American Student Association

Projects

Massachusetts Institute of Technology (MIT) Image Classifier for Disaster Response — 2020 - 2020

LADI Dataset Overview Publication IEEE HPEC 2020
Accomplished 87% model accuracy to classify disaster-related imagery by training fine-tuning Torch-vision models in PyTorch.

Python | Machine Learning(PyTorch) | Data Analysis | AWS SageMaker | Git

Indeed Job Market Trend Prediction App — 2019 - 2019

Forecast the millennial job market by conducting data visualization analysis on 1M+ Indeed job postings in R Shiny.

SWOT Analysis | R | HTML | JavaScript