Yaowen Mei

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Education

University of Guelph

May. 2021 – May. 2023

Master of Engineering in Computer Engineering

Guelph, ON

• Coursework: Asset Pricing (R), Introduction to Machine Learning (Python), Soft Computing (MatLab), Software Design and Architecture (Java), Cloud Computing (AWS)

University of Waterloo

Jul. 2014 - Sept. 2016

Master of Science in Physics

Waterloo, ON

University of Waterloo and Dalian University of Technology (China)

Sept. 2010 – April. 2016

Bachelor of Science in Physics & Bachelor of Engineering in Electronics (Double Degree)

Waterloo, ON

Technical Skills

Languages: Python, Java, R, SQL, Windows Batch

Libraries: Pandas, Numpy, Matplotlib, Tensorflow, Selenium, Boto3, Swing

Tools: AWS, Docker, Version Control (Git), Builds Control (Mayen/Gradle), Android Studio, MySQL, MongoDB, Firebase

Certification: Intermediate Java Programming Certificate from Conestoga College;

Certified Quality Engineer from American Society of Quality;

Certified LabView Associate Developer;

Projects

UWaterloo Campus Tour App (Link) | Java, Android Studio, Google Firebase

August 2021

- Developed an android map application with the Google Map API and Firebase database for students to share their unique stories related to different spots/buildings on campus.
- Implemented with various software architectural styles, such as repository, pip & filter and implicit invocation style to enhance the scalability and re-usability of the code.
- Applied decorator and strategy design patterns to decrease coupling and increase cohesion between objects.
- Awarded the "best final demo" prize of the Summer 2021 CS646 class at UWaterloo

Mobile Machine Learning App (Link) | Java, Android Studio, Tensorflow Lite

August 2021

- Created a mobile phone app can identify different analytical chemistry equipment with the back camera, and provide operating instructions, historical data, and calibration status to the responsible chemistry Lab technician.
- Trained a Tensorflow Lite machine learning model with 100 pictures for object identification.
- Utilized the Firebase Realtime Database (JSON) for data storage.
- Elected as the best mobile app of the Summer 2021 ENGG6400 class at U of Guelph

Data Processing Application (Link) | Python, Pandas, Batch Scripts

March 2021

- Designed a data processing software that collects, process, and evaluate the final products' inspection result for a gear manufacturing plant.
- Used Pandas and Numpy for data processing and report generating.
- Saved the company more than \$15,000 yearly from purchasing commercial software license.

Experience

Stackpole International Powder Metal Ltd.

April 2019 – May 2021

Process Quality Specialist

Ancaster, ON

- Wrote Coordinate Measurement Machine (CMM) programs to match the customer's specification.
- Maintained a LAN for 8 gauges, trouble shooting for packet loss and communication failure.
- Wrote Windows Batch scripts to monitor inspection status and archive inspection results.

Linamar Eston Manufacturing Quality Technician/CMM Programmer

Oct 2016 - Feb 2019

Guelph, ON

- Build Windows PowerShell Scripts to automatically segregate and print inspection reports.
- Wrote programs for Computer Numerical Control, Allen Bradley Robots, CMM and automatic gauge.
- Awarded to be the Best Employee of the Month on Aug 2017