Hanyu Xi

github.com/HanyuXi
laoxi02@gmail.com
+1-226-977-0745
linkedin.com/in/hanyuxi/

Languages: Python, Java, C++, MATLAB, Bash, VHDL, HTML5/CSS3, Perl

Frameworks and Tools: Pandas, Django, Vue/React.js, Airflow, Google Cloud, Linux, Jenkins, Kafka, Jupyter Notebook, scikit-learn, TensorFlow

Electrical: Arduino, Raspberry Pi, Sensors, Actuators, PID design, EAGLE, LabVIEW FPGA

Education

M.Eng. in Electrical & Computer Engineering – University of Toronto — In Progress

- Emphasis in Computer Engineering
- Anticipated completion: Dec 2021 (part-time student)

B.E.Sc. in Mechatronic Systems Engineering – Western University — May 2019

- Dean's Honor Award (2015 - 2017)
- Hackathons: Top 6 for Hack Western 2 (2015),
  IBM Blue Mix First Prize for Montreal Angel Hackathon (2015)

Experience

Programmer Analyst — Scotiabank, Toronto ON — Jun. 2019 – Present

Tools/Languages: Django, Vue,js, Linux, Docker, Java Sprint, Jenkins, Git, GCP, Perl

- Implement code enhancement of existing ALGO CREDIT application (risk data processing application in Java & Python) to ensure that the client's updated requirements are met
- Developed a web application that enables clients to streamline and modify bank's counterparty risk data using Vue.js, Django, Kafka, UWSGI, Nginx, Docker, Jest, pytest and Jenkins
- Prepare manuals and documentations on status, operation and maintenance of software application code change
- Prepare test cases and document the test results for system and integration testing
- Assist in migrating internal risk data calculation software applications from on-premise servers to Google Cloud Platform

Software Developer Intern — Trudell Medical, London ON — May. 2018 – Sept. 2018

Tools/Languages: Python, Pandas, Flask, HTML5/CSS3, D3.js, React.js, MongoDB, Git, unittest mock

- Developed a web application to enable doctors to visualize patient data using Python Flask/Pandas, D3.js and React.js
- Setup and configured a database to store and manage medical data using MongoDB and Python
- Wrote scripts to testing web application algorithms and functions using unittest mock
- Developed algorithms for patient prescription adherence using aggregated clinical trial data from doctors
- Collaborated with electrical and mechanical engineers to ensure consistency with hardware product

Projects

Heatmap Calendar Project — Python, Dash and Plotly module (MIT Licensed)

- Developed a Python application that allows Python programmers and data analysts to develop heatmap calendar projects than uncovers previously hidden insights from their data
- Developed in Python using Dash and Plotly module (MIT Licensed)