Hanyu Xi

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

Languages: Python, Java, C++, JavaScript, Bash, HTML&CSS, Perl, YAML

Frameworks and Tools: Django, Flask, Vue.js, React.js, Node.js, Airflow, GCP, AWS, Jenkins, Maven/Gradle, Kafka, Git, MongoDB, MySQL, Docker, Object-oriented programming, REST API

Professional Experience

Software Developer Scotiabank, Toronto ON Jun. 2019 – Present

Tools/Languages: Django REST, Vue.js, Linux, Docker, Java Maven, NGINX, Jenkins, Git, GCP, Perl

- Implemented new business features using OOP in Java and Python for an in-house risk calculation application; decreased the existing system's failure rate by 30%
- Developed a full stack web application (Vue.js, Django REST Framework, Kafka, Docker, PostgreSQL) enabling clients to streamline, modify and calculate the bank's trade data in real-time
- Revamped the overnight batch process (data mapping and calculation) from a cluster of programming languages to Python; reducing the processing time from 4 hours to 30 minutes
- Built automated testing and regression suite tools in Python to facilitate testing process
- Modernized internal risk data prediction application from on-premise servers to Google Cloud Platform for 20% cost savings as well as productivity improvements
- Hosted 4 tutorial sessions (40 people each session) for Scotiabank Technology Department on how to use Jupyter Notebook

Software Developer Intern Trudell Medical, London ON May. 2017 – Sep. 2018

Tools/Languages: Python Flask, HTML5/CSS3, D3.js, React.js, MySQL, Git

- Developed a web application to enable doctors to visualize patient data using Flask, D3.js and React.js
- Setup relational data models and configured the database to manage the medical data using MySQL
- Wrote scripts to test web application algorithms and functions using python unit test
- Developed algorithms to calculate the total amount of medication patient inhaled for patient pre scription adherence using aggregated clinical trial data from doctors

Education

M.Eng. in Computer Engineering – University of Toronto Sep. 2020 – Present

- Relevant Coursework: Algorithms, Cloud Computing (AWS, Python Flask), Machine Learning, Web Scale Applications
- Anticipated completion: May 2022 (part-time student)

B.E.Sc. in Mechatronic Systems Engineering – Western University Sep. 2014 – April. 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)

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