Wen Dong

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SKILLS

- Programming Languages: Python/Numpy/Pandas/ PySpark, C/C++/C#, Java, Bash, Ansible, Perl
- Cloud Computing: AWS (Certified), Google Cloud/BigQuery/GKE/Colab
- Software Tools: Git, Visual Studio Code, PyCharm, Eclipse, UML Tool, Tableau, Jupyter Notebook
- Framework & Libraries: TensorFlow/Keras/scikit-learn, PyTorch/fastai, Django/Flask, Selenium, Jenkins, Docker/K8s
- Database: MySQL, Oracle, MS SQL Server, PostgreSql, MongoDB, Neo4j

EDUCATION

Master of Applied Computing, University of Windsor, ON   Sep 2020 – present
- Relevant courses – AI Introduction, Advanced Computing Concepts, Advanced Database, Advanced Software Engineering, Advanced System Programming, AI Workshops
- Available for a 4-month internship starting from Sep 2021

Bachelor of Engineering, Wuhan University of Sci & Tech, Wuhan, China   Sep 2002 – Jun 2006
- Major – Computer Science and Technology
- Relevant courses – Database, Data Structure, C Programming Language, Operating System

ACADEMIC PROJECTS

IEEE CIS/SMC Deep Learning Challenge, University of Windsor, ON   June 2021 – July 2021
- Went through a complete lifecycle of Deep Learning data analysis, including data preprocessing, feature selection, standardization & normalization, model building, tuning and evaluation, using TensorFlow/Keras/KerasTunner, scikit-learn.
  https://github.com/fanchuanster/uwinds3/tree/master/challenge/CIS_SMC

Online Learning App, University of Windsor, ON   May 2021 – July 2021
- Practiced various Django components - fundamentals, template (inheritance), URL patterns & namespace, form & model form, authentication, admin, database saving and loading with fixture, beautifying UI with bootstrap, etc.

Diabetes Prediction System (Team Project), University of Windsor, ON   Feb 2021 – Apr 2021
Technologies: TensorFlow/Keras, scikit-learn, Google Cloud
- Created a Neural Network model by applying Deep Learning algorithms to diabetes dataset and deployed it to Google Cloud
- Improved the prediction accuracy from 60% to 87% with KarasTuner

Movie Recommendation (Team Project), University of Windsor, ON   Oct 2020 – Nov 2020
Technologies: Python/Pandas/Flask, Angular, scikit-learn
- Built a movie recommendation system using Machine Learning algorithms like TFIDF, Linear Kernel from scikit-learn library, exposing the ML model through Flask to front Angular UI.
  https://github.com/fanchuanster/engprj1

WORK EXPERIENCE

SaaS System Engineer, Micro Focus, Shanghai, China   Sep 2019 – Present
Technologies: Python, AWS, Terraform, Ansible, Oracle DB, Docker, RESTful API, Jenkins
- Framed the delivery of Application Lifecycle Management system into a Kubernetes & docker paradigm and migrated from the legacy provisioning process, integrated the best DevOps practices and state-of-the-art technologies – EKS, K8s, Docker, Helm, enabling hundreds of customers to enjoy a scalable, reliable SaaS offering
- Designed and programmed to automate the deployment and upgrade process of our Application Lifecycle Management system on AWS
- Innovated and created a health check tool with automatic remedy to effectively handle various common issues in customers' farms in SaaS platform using Python and Ansible
- Designed and implemented an automation to collect SaaS customers' daily license usages, calculate peak usage and report to a central hub enabling Sales and Customer Care teams to gain insight into customers' engagement and satisfaction
- Built automations to identify idle and costly AWS resources like EC2, S3, EBS and Snapshots for cost down
- Handled issues & requirements from customers by trouble shooting, communication skills.
- Promoted to SaaS Expert due to excellence in work at Jan 2021

Senior Software Engineer, Micro Focus, Shanghai, China   Jun 2013 – Aug 2019
Technologies: C++, C#/WPF
- Added SAP NWBC support to the Unified Functional Testing tool in C++ enabling thousands of enterprise customers to leverage UFT's rich functionalities to perform automated test on SAP NWBC applications
- Innovated a new feature allowing UFT users to generate automation scripts by drag and drop from Object Spy Dialog
- Improved 50% the performance of UFT's Object Identification for web objects by refining the page learning algorithm
- Facelifted another sibling testing tool Sprinter by completely rewriting the UI in WPF

Software Engineer, AB Suite, Unisys, Shanghai, China   Aug 2010 – Jun 2013
Technologies: C++, MS SQL Server
- Developed new features and improved product quality by fixing defects in the core module

Software Engineer, JRD Communication Inc, Shanghai, China   Jan 2009 – May 2010
Technologies: C++, Linux, MySQL, GDB, Valgrind debugging and profiling tool, UML
- Built an intermediate Linux daemon service serving as a bridge between various internet content providers and mobile phone users

Software Engineer, HiSoft, Shanghai, China   Apr 2008 – Dec 2008
Technologies: C++
- Worked as a Contingent Worker inside IBM to implement and test built-in commands in AIX

Junior Software Engineer, Neusoft, Shenyang, China   Jul 2006 – Mar 2008
Technologies: C/C++

SPORTS:
Ping Pong and Basketball, Walk and Bicycling