**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, ONSep 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, ChinaSep 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, ChinaSep 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, ChinaJun 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