

Woody Wu

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TECHNICAL SKILLS

Languages | HTML, CSS, JavaScript, Python, Java, PHP, C, Perl, SQL, Shell Script, Windows Powershell Script

Frameworks | ReactJS, NodeJS, Spring, JSP, J2EE

Databases | Oracle, SQL Server

Tools | Docker, Git, SVN, Jira, PowerShell, FTP, Website Hosting, Eclipse, VS Code

OS | Linux, AIX, Windows

EXPERIENCE

InfoTech Services (Hong Kong) Limited

Senior Programmer

Oct 2023 - Mar 2024

- Enhanced payment modules for the Integrated Court Case Management System using Java (J2EE, JSP), JSF, JDBC, and Oracle databases.
- Improved backend performance and optimised SQL queries.
- Optimised data workflows and ensured data integrity in collaboration with users, database administrators, and other teams.
- Managed version control and code integration using Subversion.

Hong Kong Observatory

System Developer

Sep 2022 - Sep 2023

- Designed and developed tools for the Aviation Nowcasting System, delivering real-time weather data for operational use.
- Managed and maintained 300+ programs, focusing on data visualisation through interactive maps and dynamic real-time series graphs.
- Built interactive dashboards and maps to display weather data dynamically.
- Worked with large datasets, including lightning data and gridded forecasts, to extract meaningful insights for scientific applications.
- Researched and optimised data algorithms to improve performance while ensuring accuracy and functionality in meteorological systems.
- Assisted Scientific Officers in analysing and summarising critical data for further investigation, contributing to data-driven decision-making.
- Automated and monitored data transfer using secure file transfer protocols such as SFTP and HTTPS between Linux servers and handled daily cron jobs for automated forecasting using bash scripting.
- Provided technical support for intranet and internet webpages and performed system administration tasks, including hardware configuration and certificate management SSH key management and authentication mechanisms.
- Upgraded outdated libraries/configuration files and ensured seamless data flow between servers.

Automated Systems (H.K.) Limited

Solution Associate

Jul 2021 - Sep 2022

- Contributed to the cloud migration of the eTAX system for the Inland Revenue Department (IRD), including upgrading the back-end system from Oracle Database 12c to 19c.
- Verified data integrity and conducted performance testing post-migration.
- Implemented Responsive Web Design (RWD) for the eTAX system, ensuring optimal usability across desktop and mobile devices.
- Developed and maintained Government eForms for the Education Bureau, integrating them into the eForm Submission System and ensuring they met user requirements.
- Performed testing and bug fixing using ReactJS (front-end) and Spring Framework (back-end).
- Managed Git version control for system development, including branching and merging.
- Created technical documentation and system manuals for development processes and user access paths.

Hong Kong Observatory

Intern Student

Jan 2018 - Dec 2018

- Developed algorithms for automatic weather forecasting using HTML, CSS, and JavaScript to assist forecasters in modifying gridded forecasts during extreme weather conditions.
- Developed forecasts using numerical modelling based on physical equations.
- Integrated weather data from multiple sources using scripting languages, converting data into JSON format for web applications.
- Presented algorithm development and implementation at a technical forum attended by industry experts and directors.

EDUCATION

THE CHINESE UNIVERSITY OF HONG KONG

MSc., Physics

Sep 2020 - Nov 2021

BSc., Physics

Sep 2015 - Nov 2020