STEPHANIE YUNQI ZHANG

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HIGHLIGHT

- Certificates:
    - Microsoft Certified: Azure Data Engineer Associate
    - Microsoft Certified: Azure Data Fundamentals
    - Microsoft Certified: Azure Fundamentals
- Programming Languages: python, SQL, JavaScript, HTML, and CSS
- Frontend developing: Vue and React framework, Echarts, and Element UI
- Data management: PostgreSQL, postGIS, SQL Server and Oracle database
- Language: fluent in English, Cantonese, and Mandarin, intermediate in reading and written German

EDUCATION

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN (top 100 worldwide)   Urbana-Champaign, US
Master of Science in Geographic Information Science   December 2017
Illinois Professional Science Master's Concentration

UNIVERSITY OF TORONTO (top 100 worldwide)   Toronto, Canada
Bachelor of Arts in Urban Studies   June 2015
Minors in Geographic Information Science and German Studies

Experience

KPMG   Shenzhen, China
Software Engineer   May 2021-present
- Develop financial report functions to auto-generate reports of transaction and user data from postgres SQL database, and upload reports to SFTP server
- Transform data from various services in real-time with Microsoft Azure Service Bus, performed data wrangling and loading into CRM module
- Participate in backend product module development with nestJS and typeorm, including creating APIs and improving workflows
- Develop an online management platform with React, fulfilling UI designs and communications with backend services

HAOYA INFORMATION TECHNOLOGY   Guangzhou, China
Software Engineer   July 2018-April 2021
- Developed desktop GIS tools to semi-automate spatial data conversion and analysis using python
- Created national-wide 3d terrain base map with NASA satellite image using hillshade and Pansharpening tools
- Responsible for database maintenance of Oracle database, and spatial data management of ArcSDE geodatabase
- Developed online map components to fulfill spatial needs for comprehensive projects

DOW AGROSCIENCE   Urbana-Champaign, IL, US
GIS Intern   March 2017-December 2017
- Collected and managed spatial data, and developed scripts with Python and R to automate ESRI map production
- Assisted with normalizing enterprise server database, applying database constraints, and developing python scripts to implement quality assurance/control for enterprise GIS
- Provided continuous improvement and support for web application through debugging and reporting
- Used PowerBI to create interactive technical report for business intelligence purpose

Wilson Project Data Management– KPMG   October 2021 – October 2022
Description: develop CRM module, transfer data to archive database, create financial report
Contents:

- Extracted data from postgres SQL databases using APIs and Service Bus in real-time
- Validated data by filtering records with values in expected range, analyzed rejected records and modified the extraction process on an on-going basis
- Performed data transformation, including data cleansing, removing duplicate records, applied business rules in data conversion, and prevented syncing malfunction to ensure data integrity
- Published data to CRM with Dynamics 365 APIs, managed storage in Dynamics365 by setting routine deletion jobs and optimizing settings
- Designed archive database in Microsoft SQL Server and created APIs to initiate historical data transferring
- Developed a data warehouse and transferred the cleansed data daily with a hopping window
- Auto-generated financial reports at monthly basis, aggregated data based on business requirement, and exported reports in CSV format to SFTP servers

Results:

- Automated data streaming from different sources to Dynamics365 CRM and archive database
- Finished nearly 40M historical data transferring in batch to archive database
- Supported business intelligent department with data ready for analytics in CRM and financial department with monthly financial reports

Upgrade Map Component – HAOYA INFORMATION TECHNOLOGY   July 2019 – December 2020
Description: Upgrade existing online map platform with reference of most updated industry mapping service
Contents:

- Vectorized spatial data and created mbtiles using open-source tools, hosted tiles on tileserver
- Utilized Mapbox to create web maps and turf.js to performed spatial analysis
- Built the new platform using Vue framework with management tool of Vuex
- Designed interface with Element UI, visualized data with Echarts, and created frontend page with JavaScript, CSS, and html

Results:

- Improved the cartography of the map component and the efficiency of spatial data maintenance procedure
- Offered more interaction for users to query data, and provided useful data visualization and analysis
- Gradually replaced existing mapping components of all projects
- Offered simple analysis abilities, such as trail sectioning and height measurement

Results:

- Assist users to review past flights with straight forward 3D visualization
- Currently in testing stage to implement the platform into the drone pilot test system