

Longy Zhang

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[Linkedin](#) | [Uni Account Github](#) | [Self Learning Github account](#) | Permanent resident of Australia

PROFESSIONAL SUMMARY

- Strong foundation in mathematics and programming logic, complimented by sound technical knowledge using a range of programming and data analytics tools.
- Experienced data technician, impeccable work ethic, and strong learning skills in the Web development, Data Analysis, and GIS areas.
- Passionate to **reshape** my career to web development. Although I have 2 years experience in the Geospatial software development field, I am willing to restart my career from scratch.

EDUCATION

Bachelor of Computer Science, minor in Artificial Intelligence Feb 2017 – Nov 2020

The University of Adelaide

- Results: final year Average Distinction
- Overall GPA (5.07)

Self Learning after work hours

July 2022– Present

[Self Learning Github account](#)

- **Front End:** HTML5, JavaScript, ES6, CSS3
- **Framework:** Bootstrap, React, .Net Core MVC
- **Currently Learning:** Redux, React Route, And .Net Core

Professional Experience

We Do IT, SA— GIS Software Developer (*Full-time*) July 2021- Present

- Develops, maintains, unit tests and deploys multiple Projects on Smallworld by using Magik language(OOP), Batch Script, it achieves the automated data processing, automated log files, automated archive to specific folder.
- Migrated the GIS team source code from Visual Source Safe to GIT, and introduced the GIS version control solution to client's GIS team.
- Participate in the monthly Smallworld deployment and OS patching for the client's GIS system.
- Developed the automation ticket transferring system between Outlook and vFire by using MS Power automate.
- Developing the Azure CICD processing for client's GIS development environment

AirborneLogic Pty Ltd, SA— Spatial data technician (*Part-time*) Nov 2020 - Apr 2021

- Use QGIS and ArcGIS software to label spatial datasets for analyzing expected vegetation yield (vineyard, fruit trees, and crops).
- Use QGIS and ArcGIS software to create RGB maps for the viticultural and horticultural sites, successfully increasing company revenue.
- Apply machine learning (unsupervised and supervised) to classify spatial image data.
- Use Python to develop software automation, it saves data processing time from cloud to local.
- Continuously develop and maintain automation software through Git.
- Use Python to reorder and label data automatically.

- Received Onsite safety training and Participated in drone data collection at a range of horticultural and viticultural sites around SA.

CORE COMPETENCIES

Relevant knowledge, Skills and Training

- Experience in C++, Python, Javascript &HTML5&CSS, Magik, Batch, Mysql, MSSQL and .Net MVC
- Great problem solving skills and learning skills for tech (Google, Stack Overflow, GeeksforGeeks,W3Schools)
- Great coding style (comment, indentation)
- Data analysis (SQL, Access, Excel, Matlab, PowerBI)
- GIS Software (ArcGIS, Smallworld and QGIS)
- Data visualization (Python Matplot, Seaborn, Geopanda)
- Database management(MSSQL,Mysql)
- Documenting skills (Design, Releasing and testing documentation)
- Source control (GIT, subversion and Azure DevOps repo)
- Issue management (Kanban, Rmtrack, Jira, vFire and Azure DevOps board)

PROJECTS

Developed Subaru online shopping page august 2022- current

—https://longyzhang.github.io/shopping_website_static.github.io/

Developed the shopping page which only uses CSS3 and HTML5, the practice of this site is meant to improve basic HTML and CSS skills without using any framework.

Three pages are currently available : index, list and signup. Users can click the left drop down list to access the list page and click the top side sign up to access the signup page .

Developed My first MVC Website August 2022- current

<https://longycrud.azurewebsites.net/>

Developed My first MVC website which achieves Crud functionalities (Create, Read, Update, Delete), It is part of my interesting exploration for Back End techs.

Developed My React Todo list August 2022- current

https://github.com/LongyZhang/React_TodoList

Developed React Todo List by React without Redux, the purpose of this practice is to understand how to update State and transfer information within different components.

Developing Pospac Automation System-Jan 2021

—Use Python to implement Pospac software automation for AirborneLogic Navigation data correction, it conquers complex data processing and automated data management from the local machine and cloud server, The automation system saves data processing time from 30mins to 3 mins.

Using Machine learning to find appropriate Tree planting location On QGIS-Nov 2020

—Use a Drone to collect the high definition image data, then Use Random Forest and K means to classify different objects on QGIS. The usage of machine learning can achieve a 95 percent accurate rate to classify Tree Canopy, concrete, soil, sidewalk, and road.

References

References Available Upon Request