

Longy Zhang

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Personal Portfolio:

<https://longvzhang.github.io/react-portfolio-website/>

PROFESSIONAL SUMMARY

- Strong foundation in mathematics and programming logic, complimented by sound technical knowledge using a range of programming and data analytics tools.
- Enjoy developing and deploying things from zero to one, Enjoy learning new things from mistakes and 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 for Cloud and DevOps Techs

March 2023– Present

- Completed AWS Cloud practitioner courses on Udemy and certificated [Certified Cloud Practitioner badge](#)
- Completed Terraform course and was certificated on Udemy

Professional Experience

ESRI Australia, Managed Services Cloud Team, QLD— Cloud System Administrator (*Full-time*) Jan 2023 -

Present

- Manage and Troubleshoot Network and infrastructure requests for a few hundred EC2 Instances including Windows and Linux.
- Maintain and troubleshoot high availability ArcGIS Application on the AWS.
- Developed Powershell and Python scripts for patching and daily BAU work.
- Automated resource Audit work over few hundred of EC2 instance, RDS by Python(Boto3, Panda, OS..etc)
- Customize the CloudWatch agent to collect essential information on the hosted machine.
- Participate in the software deployment work by using the Ansible automation platform and Terraform cloud.
- Participate in the monthly OS and ArcGIS Software patching for the client's hosted system.
- Daily monitoring of client's hosted system by using Pingdom, AWS Cloudwatch and Sumologic, Manage and implement SSL certificates for clients.

We Do IT, SA— GIS Software Developer (*Full-time*) July 2021- Jan 2023

- Develops, maintains, unit tests and deploys multiple Projects on Smallworld by using Magik language(OOP), and Batch Script, it achieves automated data processing, automated log files, and automated archive to specific folders.
- Participate in multiple smallworld projects and integrate those with Oracle Utilities Work and Asset Cloud Service
- Migrated the GIS team source code from Visual Source Safe to GIT, and introduced the GIS version control solution to the 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.

CORE COMPETENCIES

Relevant knowledge, Skills and Training

- Experience in programming language: C++, Python, Javascript &HTML5&CSS, Magik, Batch, and .Net MVC
- Familiar with AWS stack:: EC2, S3, VPC, RDS, CLI, Cloudwatch, WAF, IAM and System Manager.
- Experience in Script Type: Batch, PowerShell, JSON, XML
- Experience in DevOps tools: Terraform and Terraform Cloud, Ansible Automation Platform
- 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, Postgres)Source control (GIT, subversion, Github, Bitbucket and Azure DevOps repo)
- Issue management (Kanban, Rmtrack, Jira, vFire and Azure DevOps board)
- Monitoring tool(Sumologic,Pingdom,Crowdstrike)

Personal Software Projects

Personal portfolio website Oct 2022- Nov 2022

—<https://longyzhang.github.io/react-portfolio-website/>

Developed the portfolio page which uses React, CSS3 and HTML5, the practice of this site is meant to improve skills using React framework, This site is deployed in Github Pages.

Feature: floating bar, Email service, Facebook messenger service

Subaru online shopping page - august 2022

—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,This site is deployed in Github Pages.

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 .

React Todo list -August 2022

<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.

Using Machine learning to find appropriate Tree planting locations 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