

Sheldon Small

SENIOR SOFTWARE ENGINEER | CLOUD SOLUTIONS ARCHITECT

Profile

Senior Software Engineer, Cloud Solutions Architect and Technical Lead specializing in leading teams to adapt, develop and deploy tailored solutions in multi cloud and on premises environments. I am passionate about building, integrating and designing systems to meet organizational needs as well as aligning with clients and stakeholders to drive organizational success.

Employment History

Senior Software Engineer, Realdecoy, Kingston

JANUARY 2019 – PRESENT

- Implemented a robust cloud architecture solution on AWS, leveraging Terraform and successfully migrating client infrastructure to increase up-time, resulting in enhanced operational efficiency and client satisfaction.
- Directed a cross-functional team in developing and implementing data encryption processes for a multi-tenancy database, significantly enhancing security and data integrity and ensuring compliance with industry standards.
- Leveraged GitHub actions to create robust CI/CD pipelines, increasing deployment efficiency through comprehensive execution of unit tests, regression tests, and targeted deployments.
- Designed and implemented business intelligent Geo-Spatial data ETL solutions with Feature Manipulation Engine(FME), facilitating seamless integration of disparate systems into a centralized data-store for spatial data analysis and visualizations on Mapbox.
- Coordinated with team members in the development of an innovative in-house CLI automation tool, significantly enhancing Vue.js application component scaffolding, which accelerated project delivery times and improved team productivity.
- Championed and executed the adoption of Confluence project and page level templates for the company's documentation standards, leading a cross-departmental team to improve document accessibility and collaboration. This initiative resulted in increased documentation efficiency reducing on-boarding time for new employees, and significantly enhancing operational productivity and knowledge sharing across the organization.
- Mentored associate engineers through peer programming, PR reviews, and guidance, fostering their professional growth within the team.

GIS Application Developer, GeoTechVision, Kingston

JANUARY 2018 – JANUARY 2019

As the Lead Software Developer and GIS Analyst, I played a pivotal role in:

- Spearheading the development and customization of innovative web and mobile solutions, aligning with specific client needs through detailed analysis and understanding of user requirements.
- Providing mentorship and leadership to junior developers and GIS technicians, fostering a culture of continuous improvement and accountability by delivering targeted feedback on their work.
- Designing and executing specialized training programs for seasoned Land Surveyors in Guyana, emphasizing the use of high-precision GPS technology for static and kinematic surveys, with a strong commitment to upholding industry standards.
- Enhancing operational efficiency by integrating and advocating for the use of project management and collaboration tools such as Asana, GitLab, and Trello across the team.

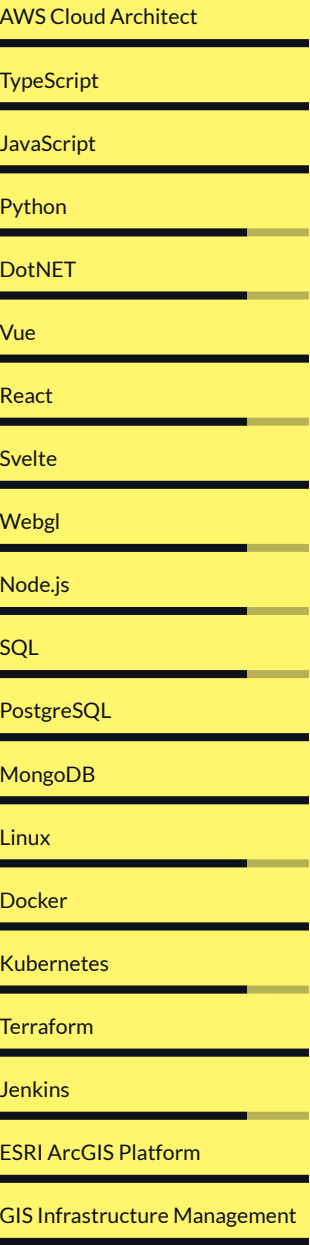
Details

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Links

[Linkedin](#)
[Github](#)
[Portfolio](#)

Skills



Hobbies

I am either tinkering with my raspberry pi or working on my webgl rendering engine.

- Leading the organization and execution of a significant international GIS/Tech conference at the Marlie Technology Park, effectively demonstrating our team's technical prowess and establishing our position as industry leaders.

GIS Analyst, Miya, Nassau

AUGUST 2015 – JANUARY 2018

As the Lead GIS Analyst for Non Revenue Water (NRW) projects in Nassau, Bahamas, and Kingston, Jamaica. My role was pivotal in managing and optimizing the water distribution networks. I employed best practices and innovative automation strategies to eliminate inaccuracies and anomalies. Key responsibilities included overseeing the leak detection and repair teams, and crafting data visualizations that informed critical decision-making processes.

Customer Meter Census:

I addressed a longstanding issue concerning customer location data. Utilizing Python, I developed an automated system for cross-referencing and matching unique addresses between the National Water Commission's customer database and the

National Land Agency Parcel Database. This innovation significantly improved our mapping coverage from 30% to over 90% for the 130,000 customers in the city, a crucial step in establishing baseline measurements for the water balance, marking the commencement of the project.

Data Visualizations:

I was instrumental in creating data visualizations for the Kingston and St. Andrew (KSA) water distribution network. These visualizations played a crucial role in guiding the decision-making of key stakeholders addressing NRW issues. They included analyses of network burst frequency, pressure baselines, and comparisons of night-time versus daytime flows. This was achieved by consolidating and analyzing data from various sources, including flow meters, pressure loggers, and recorded geo-located leaks.

Software Development (In-house Applications):

Under my leadership, we developed mobile applications and custom REST API services for capturing leak location and repair data in the field. This facilitated effective logistics management of network repair materials and equipment allocation. I also automated the ESRI Operation dashboard using SQL scripts, enabling the aggregation and presentation of near-real-time field reports in a user-friendly manner. Furthermore, I trained field technicians in the accurate and efficient use of spatial data gathering equipment, enhancing the overall effectiveness of our field operations.

Education

Bsc. Land Surveying and Geographic Information Science , University of Technology, Jamaica, W.I., Kingston

AUGUST 2008 – JULY 2014

Languages

English
