Sergio Valencia

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SKILLS AND TECHNOLOGY

Programming Languages: Python, Javascript, SQL
Development Tools: Visual Studio, Git, Github, Docker
Databases: PostgreSQL, SQLite
GIS Software: ArcGIS Online, ArcGIS Enterprise, ArcGIS API, QGIS
Business Intelligence: Power BI, Tableau, Advanced Microsoft Excel, Geospatial Data
Professional Skills / Business: Geocoding, Project Management, Strategic Planning, Leadership Skills, Reliability, Creativity, Troubleshooting, Communication, Quality Assurance (QA)

PROFESSIONAL EXPERIENCE

GIS Developer I PG&E | Contractor | 06/2024 – Present
Analysis & Database Administration | Geo-database Proficiency | Enterprise Integrations & Application Development
- Performed advanced geospatial analysis and database administration using ArcGIS Desktop, ArcGIS Pro, and ArcGIS Enterprise to support Electric and Gas utility operations—focusing on spatial data extraction, SQL integration, and accurate field mapping for improved asset management.
- Led the design, development, and optimization of GIS web applications and portals using ArcGIS Online, ArcFM, Python, and Java—creating custom workflows, API integrations, and backend services to streamline enterprise GIS operations and enhance system reliability.
- Built and maintained interactive dashboards, hosted feature services, and spatial tools within AGOL and WebApp Builder, applying geo-processing tools like Clip, Erase, and Selections to deliver actionable geospatial insights across business units.

GIS Data Analyst I Sally Swanson Architect, Inc. **|** 07/2021 – 06/2024
Data Management I Lidar Optimization of Data Extraction **I** Automation **I** Scripting **I** Data Structures
- Led small group on optimization of data extraction for high-severity locations using ESRI's API for python, enhancing the ADA Activity Scoring Tool's efficiency by 30%.
- Ingest python to automate Lidar data reproduction, data management, map display, and many other daily tasks in ArcGIS online.

GIS Operations Specialist - Data Automation and Quality Assurance I Scale AI | 09/2019 – 06/2021
Software Design I Test Case Generation Tool I Automating Metadata I Data Validation I Data Structures
- Drove the development of a test case generation tool, automating metadata updates within map geo-databases for client projects by significantly reducing manual data entry errors and utilized AWS Lambda functions.
- Implemented data management strategies to evaluate machine learning data quality, enhancing customer satisfaction by improving data accuracy by 25%.

EDUCATION

University of Redlands | Redlands, CA
- Master of Science in Geographic Information Science, August 2019.
- Bachelor of Science in Environmental Science, April 2018.
- Bachelor of Science in Spatial Analyst, May 2018.

RELEVANT PROJECTS

ADA Data Analyst Scoring Tool I ADA Activity Scoring Tool
- Engineered a comprehensive tool for ADA activity scoring, combining front-end user input with back-end analysis. This innovation led to a 20% reduction in project hours and saved the company approximately 5% in revenue per project.
- Delivered the ADA Activity Scoring Tool, reducing project hours by 20% and saving the company approximately 5% in revenue per project, translating to an estimated $6K annually.