

Christopher J. Charles

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Data/GIS Analyst with over six years of experience specializing in automation and analytics. I focus on delivering data-driven solutions for nonprofit initiatives, with an aim to expand my expertise into new problem-solving methodologies. Highly skilled in the development, implementation, and integration of automated GIS data processes and advanced web mapping solutions. I yield extensive technical skills to improve spatial data management and user experiences. Committed to developing sustainable spatially enabled solutions, particularly in interdisciplinary roles that require adaptability and innovation.

EDUCATION

San Diego State University (SDSU) • San Diego, CA

Graduated: May 2022

Bachelor of Science in **Geography** – Emphasis: **GIS & Technology**

GPA: 3.6 | **Cum Laude**

Relevant Courses: Water Resources, Python/GIS, Data Visualization

San Diego Mesa College • San Diego, CA

Graduated: May 2020

Associate of Arts in **Geography**

GPA: 3.7 | **Honors**

Relevant Courses: Hydrology, Environment & Development, Urban Politics

PROFESSIONAL EXPERIENCE

Bay Park Data Solutions • San Diego, CA

Aug 2021 - Present • 2 yrs. 4 mos.

GIS Analyst/Developer

- **Product Management:** Manage GIS products end-to-end using ArcGIS API for Python and ArcGIS Hub.
- **Project Leadership:** Lead USC's humanitarian mapping project using Power BI and agile methodologies.
- **Client-Centric Design:** Customize maps for nonprofits; refine through client feedback.
- **Efficiency & Training:** Reduce GIS processing time by 50% using Python; maintain 100% user satisfaction.
- **Data Management:** Automate 40% of manual GIS tasks with Python, elevating project efficiency.
- **Data Analysis:** Manage data projects using Excel, Python, and GIS; turn complex data into actionable insights.
- **Technical Documentation:** Craft user-friendly manuals that cater to a global, non-tech-savvy audience.
- **Methodology Adoption:** Thrive in high-pressure, challenging environments; adapt to evolving project scopes.

Flicks • San Diego, CA

Aug 2011 – Present • 11 yrs. 4 mos.

Lead Bartender

- **Process Optimization:** Engineered optimized inventory workflow through space assessments.
- **Change Management:** Integrated new inventory workflow into routine operations.
- **Team Leadership:** Led high-performing team to meet job volumes and exceptional customer service.
- **Financial Management:** Executed financial demonstrating proficient cash handling.

TOOLS & EXPERTISE

Esri ArcGIS Suite

- **Core GIS Tools:** ArcGIS Pro, ArcMap, ArcGIS Online
- **Data Collection & Analysis:** Survey123, Dashboards, ArcGIS for PowerBI, Notebooks
- **Map Design & Visualization:** Map Viewer, Vector Tile Style Editor
- **Storytelling & Collaboration:** StoryMaps, Living Atlas, Hub, Marketplace
- **Web & App Development:** Experience Builder, Instant Apps

Microsoft Office Suite

- **Data Analysis & Automation:** Excel, BI Stack (Power, Automate, Query)
- **Collaboration & Communication:** Teams, SharePoint, Outlook
- **Presentation & Documentation:** PowerPoint, Word

Technical Languages

- **Core Programming:** Python, JavaScript
- **Database Management:** SQL, VBA
- **Lightweight & Flexibility:** ArcGIS Arcade, Markdown
- **Web Development:** HTML/CSS, JavaScript

Key Performance Attributes

- **Core Values:** Committed to fostering a work environment that values autonomy, detail-orientation, dynamism, efficiency, integrity, intuition, innovation, punctuality, resilience, and resourcefulness.
- **Data Lifecycle:** Skilled in the complete data lifecycle, from exploration and ETL to governance and analytics. with a focus on synthesis, visualization, and data wrangling.
- **GIS Expertise:** Excel in all facets of GIS, from geocoding and geodatabases to geoprocessing and integration, with a commitment to quality control, spatial analysis, and both static and web mapping.
- **Problem-Solving & Leadership:** Excel in analytical reasoning and critical thinking; adept at data interpretation and versioning; committed to accountability, emotional intelligence, collaboration, ideation, troubleshooting, and prioritization.
- **Communication:** Proficient in public speaking, excels in progress monitoring and reporting, workflow documentation and specializes in technical communication.
- **Responsive Design:** Skilled in crafting cartographic elements, focusing on UI/UX principles, and excelling in geospatial visualization.

RELEVANT TRAINING

GIS for Climate Action | Esri Academy MOOC | Dec 2024

Going Places with Spatial Analysis | Esri Academy MOOC | Apr 2023

Spatial Data Science | Esri Academy MOOC | Nov 2022

Cartography | Esri Academy MOOC | Mar 2021

PROFESSIONAL DEVELOPMENT

GeoAI & Blockchain Technology

- Conducting independent research to explore the applications of GeoAI in optimizing water resource management. Aiming to leverage predictive analytics to identify network inefficiencies and to integrate blockchain for secure, real-time resource allocation.
- Actively following industry webinars, online courses, and literature to keep abreast of advancements in GeoAI and blockchain technologies. Focused on their potential for creating AI-powered dashboards that offer real-time insights and predictive analytics for water utility management.
- Aspiring to develop long-term sustainability plans using blockchain and GeoAI, supporting the global agenda for responsible water resource management in the face of climate change and population growth.

ACHIEVEMENTS

USC Spiritual Exemplars Project

- Selected for showcase at **Esri's 2024 User Conference**.

Hate Crime Analysis Map

- Won best map product at SDSU; considered for publication in **Esri's 2022 Map Book**.