

# 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

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**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

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**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

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### 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

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**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

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### 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

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### 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**.