

Christopher J. Charles

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Data/GIS Analyst with over six years of experience specializing in automation and analytics. Aiming to expand my expertise into new problem-solving methodologies, I focus on delivering data-driven solutions for nonprofit initiatives. Highly skilled in the development, implementation, and integration of automated GIS data processes and advanced web mapping solutions, I leverage my extensive technical skills to improve spatial data management and user experiences. Committed to developing sustainable solutions through spatial analysis, 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 Lifecycle Management:** Maintain a 360-degree approach to GIS data product management, from automating updates and dynamically altering metadata elements using the ArcGIS API for Python, to co-developing a high-impact marketing strategy seamlessly integrated with ArcGIS Hub.
- **Project Development:** Actively leading the development of USC's humanitarian mapping project by leveraging a robust technology stack, including ArcGIS for Power BI and innovative coding languages; ensuring alignment with client design expectations through meticulous research and agile methodologies.
- **Client-Centric Development & Design:** Leveraged Esri's ArcGIS platform and applied Cartographic and UX/UI Responsive Design techniques to create customized mapping applications for nonprofit initiatives, proactively incorporating client feedback to optimize feature sets and enhance user accessibility.
- **Data Automation & Training Support:** Successfully developed a Python automation project that led to a 50% reduction in GIS data extraction and processing time. Provided documentation and tailored training sessions, resulting in an end-user satisfaction rate of 100%. Offered ongoing technical support to ensure effective implementation.
- **Data Management:** Streamlined data management by developing Python scripts to update, overwrite, backup, and publish GIS feature layers, resulting in a 40% reduction in manual processing time and a marked increase in operational efficiency across various projects.
- **Data Analysis:** Employed Excel, SQL, Python, and GIS to oversee all-inclusive data projects—from acquisition and wrangling to statistical analysis and visualization—transforming complex data into actionable insights that bolstered sustainability efforts for nonprofit organizations.
- **Technical Documentation:** Gained an in-depth understanding of a mobile application's functionality during its pre-launch phase, leading to the design of user-friendly manuals and reference guides that not only catered to a global, non-tech-savvy audience but also facilitated field data collection efforts.

Flicks • San Diego, CA

Aug 2011 - Present · 11 yrs. 4 mos.

Lead Bartender

- **Process Optimization & Change Management:** Engineered and executed an optimized inventory workflow through comprehensive physical space assessments, successfully incorporated it into routine operational procedures, ensuring that goods are effectively stored, accessed, and accounted for.
- **Team Leadership & Financial Management:** Led a high-performing team to meet demanding job volumes and achieve exceptional customer service, while proficiently executing financial responsibilities including 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:** Autonomy, Detail-Oriented, Dynamic, Efficiency, Integrity, Intuitive, Innovative, Punctuality, Resilient
- **Communication:** Public Speaking, Progress Monitoring & Reporting, Technical Documentation
- **Data Lifecycle:** Analysis, Analytics, Exploration, ETL, Governance, Synthesis, Visualization, Wrangling
- **GIS:** Geocoding, Geoprocessing, Integration, Quality Control, Spatial Analysis, Static & Web Mapping
- **Problem-Solving & Leadership:** Accountability, Analytical Reasoning, Critical Thinking, Data Interpretation, Data Versioning, Emotional Intelligence, Ideation, Prioritization, Troubleshooting
- **Responsive Design:** Cartographic, UI/UX, Geospatial Visualization

RELAVANT 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.

ACHIVEMENTS

- **Mapping Spiritual Exemplars:** Project was selected for showcase at *Esri's 2024 User Conference*.
- **Hate Crime Analysis Map:** Won the award for best map product at SDSU; considered for publication in *Esri's 2022 Map Book*.