**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***.