GitHub: github.com/dheerajchand

 $[\mathsf{RESEARCH}, \mathsf{ANALYSIS}, \mathsf{ENGINEERING}] \to \mathsf{UNDERSTANDING}$

Austin, TX (30.2672°N, 97.7431°W)

PROFESSIONAL SUMMARY

Creative Data Visualization & Geospatial Analysis Professional with 21 years of expertise in transforming complex data into compelling visual narratives. Expert in geospatial analysis, demographic mapping, and interactive data visualization with proven success creating stunning visualizations that drive decision-making. Deep specialization in mapping technologies, choropleth design, and spatial data visualization with experience serving major brands, organizations, and political candidates.

KEY ACHIEVEMENTS AND IMPACT

Pioneered the integration of advanced mapping techniques into standard reports, including choropleths and hexagonal grid maps • Developed custom tile server for WMS and maintained geospatial analysis and reporting tools for CRM systems • Built the first collaborative and multi-actor contributed poll of polls with comprehensive visual reporting

CORE COMPETENCIES

Software Engineering • Data Engineering • Data Analysis • Geospatial / Demographic Expertise • Research & Analytics • Programming & Development • Data Infrastructure

PROFESSIONAL EXPERIENCE

Siege Analytics, Washington, DC | PARTNER 2005 - Present

Data Visualization and Geospatial Analysis

- Created comprehensive data visualization solutions that improved clients' understanding of complex research findings
- Built interactive data exploration capabilities and comprehensive reporting solutions
- Designed and implemented advanced segmentation models using demographic, psychographic, and behavioral data with visual representation
- Developed custom data visualization tools for research presentations using Tableau, PowerBI, and custom web-based dashboards

Helm/Murmuration, Washington, DC | DATA PRODUCTS MANAGER June 2021 – May 2023 Visualization and Geospatial Analysis

- Trained analytical and engineering staff on open source geospatial technology (QGIS, GRASS, OSGeo) for analysis, segmentation, and visualization
- Trained staff in advanced data visualization techniques using Seaborn, Matplotlib, and Tableau to improve client reporting
- Built multi-tenant data warehouse and data lake using Snowflake, dbt, and AWS for longitudinal analysis with comprehensive visualization
- Developed advanced data pipelines for machine learning applications that enhanced consumer segmentation and predictive modeling capabilities

GSD&M;, Austin, TX | ANALYTICS SUPERVISOR November 2019 – June 2020

Data Visualization and Client Reporting

- Implemented spatial analysis and consumer segmentation methodologies that revealed new insights about existing customers
- Introduced version control and Agile methodologies to the data team, improving project delivery timelines by 40%

Dheeraj Chand

 $[\mathsf{RESEARCH}, \mathsf{ANALYSIS}, \mathsf{ENGINEERING}] \to \mathsf{UNDERSTANDING}$

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- Managed three analysts, mentoring them in advanced market research techniques and data analysis with focus on visualization
- Transformed the small data team into a big data engineering team with emphasis on visual reporting and dashboard development

Salsa Labs, Inc., Washington, DC | SOFTWARE ENGINEER January 2011 – August 2011 Geospatial Visualization and Mapping

- Maintained and extended the entire geospatial analysis and reporting tools for a CRM written in Java, JavaScript and MySQL
- Developed custom tile server for WMS (Web Map Service) for geospatial data visualization
- Built web applications for voter engagement and campaign management with interactive mapping capabilities
- Developed geospatial visualization tools using GeoTools, OpenLayers, and TileMill

For a more detailed, full description of my experience, please visit my LinkedIn (https://www.linkedin.com/in/dheerajchand/) and Personal Site (https://www.dheerajchand.com).

TECHNICAL SKILLS

DATA VISUALIZATION & DESIGN *Interactive Dashboards* (Tableau, PowerBI, d3.js, Custom Web Applications); *Statistical Visualization* (Seaborn, Matplotlib, Plotly, Bokeh); *Geospatial Mapping* (ArcGIS, Quantum GIS, GRASS, OSGeo, PostGIS); *Choropleth Design* (Demographic Mapping, Hexagonal Grid Maps)

GEOSPATIAL ANALYSIS & MAPPING *Spatial Analysis* (Clustering, Boundary Estimation, Demographic Mapping); *Mapping Technologies* (ESRI ArcGIS, Quantum GIS, GRASS, OSGeo); *Web Mapping* (OpenLayers, Leaflet, MapBox, Tile Servers, WMS/WFS); *Spatial Data Processing* (PostGIS, Oracle Spatial, GeoTools)

TECHNICAL VISUALIZATION *Programming* (Python (Pandas, GeoPandas), R, JavaScript, PHP); *Database Integration* (PostgreSQL/PostGIS, MySQL, Oracle, MongoDB); *Web Technologies* (Django/GeoDjango, Flask, React, jQuery); *Statistical Computing* (R, SPSS, SAS, Stata for Data Analysis)