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Dheeraj Chand
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PROFESSIONAL SUMMARY

Distinguished Research and Data Analytics Leader with 21 years of experience directing groundbreaking applied research projects that have shaped policy, influenced elections, and transformed community development outcomes. Led multi-million dollar research initiatives serving thousands of analysts nationwide, with proven expertise in translating complex research insights for diverse stakeholders including elected officials, government agencies, and community organizations. Expert in research methodology design, statistical analysis, and community partnership development with extensive experience addressing systemic poverty challenges and delivering evidence-based solutions that drive meaningful social impact.

KEY ACHIEVEMENTS AND IMPACT

Research Leadership and Policy Impact

• Regular expert testimony and consultation on research methodology for journalists, elected officials, and community leaders

• Research analysis used in court cases addressing housing, redistricting, and community development with rigorous methodology

• Conceived and deployed cloud-based analytical software used by thousands of researchers nationwide for community-focused research

• Developed research frameworks and methodologies that became industry standards for community development and policy analysis

CORE COMPETENCIES

Applied Research Leadership: Applied Research Project Management (Conception to Completion); Research Methodology Design and Implementation; Cross-functional Team Leadership and Mentoring; Stakeholder Communication and Translation of Complex Findings; Evidence-Based Framework Development; Survey Methodology and Consumer Insights; Statistical Analysis and Data Validation

Technical Proficiency: *Programming* (Python (Pandas, SciKit, TensorFlow, Django), R, SQL, Scala); *Data Platforms* (PostgreSQL, MySQL, Snowflake, Spark, MongoDB, Oracle); *Analysis Tools* (Excel (Advanced), Tableau, PowerBI, SPSS, SAS); *Research Tools* (Survey Design, Sampling Methodology, Statistical Modeling); *Geospatial Analysis* (ESRI ArcGIS, Quantum GIS, PostGIS, OSGeo)

Strategic Operations: Community Partnership Development; Government Relations and Policy Analysis; Multi-million Dollar Project Management; Performance Measurement and Evaluation; Data-Driven Decision Making for Social Impact; Public Systems Integration; Stakeholder Briefing and Expert Testimony

PROFESSIONAL EXPERIENCE

Siege Analytics, Washington, DC | PARTNER 2005 – Present

Leading Applied Research Projects with Community Development Focus

• Conduct comprehensive quantitative and qualitative research studies using Python, R, SPSS, and Stata for political candidates and organizations

• Architect cloud-based data warehouse solutions on AWS (EC2, RDS, S3) processing billions of records for electoral analytics

• Design scalable ETL pipelines using PySpark, dbt, and PostgreSQL/PostGIS for large-scale geospatial and demographic datasets

• Develop custom analytical tools and algorithms using Python, Pandas, NumPy, and Scikit-learn for fraud detection and spatial clustering

• Manage complex client relationships across political, nonprofit, and technology sectors using Django/GeoDjango web applications

- Lead technical architecture decisions for data-intensive applications using Docker, Git, and modern DevOps practices

Helm/Murmuration, Washington, DC | DATA PRODUCTS MANAGER June 2021 – May 2023

Data Platform Development and Team Leadership

- Conceived and developed framework using Python, Pandas, and PostgreSQL to clean, validate, and normalize government data from Census, BLS, and NCES
- Built multi-tenant data warehouse and data lake using Snowflake, dbt, and AWS for longitudinal analysis across attitudinal, behavioral, demographic, economic and geographical dimensions
- Trained analytical and engineering staff on open source geospatial technology (QGIS, GRASS, OSGeo) for analysis, segmentation, and visualization using Tableau and PowerBI
- Wrote five-year strategic plans for developing data warehouse using Scala, PySpark, and Apache Spark that became basis of company's distinguishing products
- Managed teams of seven to eleven engineers, designers, analysts, and external stakeholders using Agile methodologies and modern DevOps practices

Mautinoa Technologies, Washington, DC | SOFTWARE ENGINEER August 2016 – February 2018

Financial Technology and Humanitarian Crisis Solutions

- Developed SimCrisis, a GeoDjango web application using Python, PostgreSQL/PostGIS, and NetLogo for multi-agent modeling and econometric simulations of crisis economies
- Built modular application using Python, Django, and GRASS accepting rules extensions for ethnic strife, different crisis types, supply failures, and disaster scenarios
- Liaised with officers from International Federation of Red Cross, UNICEF, and Chaos Communications Congress to improve platform using Docker and Ubuntu
- Conceived and built application using Python, Pandas, and Jupyter to predict how crisis economies respond to different humanitarian interventions

Myers Research, Washington, DC | SENIOR ANALYST August 2012 – February 2014

Quantitative and Qualitative Research for Democratic Campaigns

- Developed RACSO, a web application for pollsters to fully administer research including questionnaire creation, versioning, and reporting
- Wrote RFP and analyzed bids from 1,200 vendors before selecting implementation partner
- Built prototype in R for comprehensive polling administration and sample file management
- Provided strategic counsel to Democratic campaigns, political actors, and NGOs through quantitative and qualitative research

Progressive Change Campaign Committee, Washington, DC | RESEARCH DIRECTOR August 2011 – August 2012

Political Research and Data Analysis

- Managed critical research operations for political campaigns
- Conducted comprehensive polling and demographic analysis
- Developed strategic recommendations based on data analysis
- Led research team in support of progressive political initiatives

Salsa Labs, Inc., Washington, DC | SOFTWARE ENGINEER January 2011 – August 2011

Political Technology Development

- Developed software solutions for political campaigns and advocacy groups

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- Built web applications for voter engagement and campaign management
- Integrated third-party APIs and data sources for campaign tools
- Collaborated with political strategists to translate requirements into technical solutions

The Praxis Project, Oakland, CA | INTERIM TECHNOLOGY MANAGER April 2009 – October 2009

Nonprofit Technology Integration

- Integrated technology solutions within organizational frameworks for social justice organizations
- Developed data management systems for community organizing efforts
- Provided technical training and support to nonprofit staff
- Built custom applications for community engagement and advocacy

Lake Research Partners, Washington, DC | PROGRAMMER April 2008 – December 2008

Political Research and Data Analysis

- Developed data analysis tools for political polling and research
- Built statistical models for voter behavior analysis
- Created data visualization tools for research presentations
- Supported senior researchers with technical analysis and reporting

The Feldman Group, Washington, DC | FIELD DIRECTOR August 2007 – April 2008

Field Research and Data Collection

- Managed field operations for political campaigns and research projects
- Developed data collection and management systems for field work
- Trained field staff on data collection protocols and quality control
- Analyzed field data to inform campaign strategy and research findings