dheeraj@dheerajchand.com
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GitHub: github.com/dheerajchand

Dheeraj Chand

[RESEARCH, ANALYSIS, ENGINEERING] → UNDERSTANDING

Austin, TX (30.2672°N, 97.7431°W)

PROFESSIONAL SUMMARY

Data scientist and software engineer with 15+ years building systems that matter. I've discovered 2.7M misclassified voters, saved organizations $4.7M through better algorithms, and built platforms used by thousands of analysts nationwide.

KEY ACHIEVEMENTS AND IMPACT

Discovered 2.7M misclassified Democratic voters through data analysis • Handled billions of records with millions of columns for tens of thousands of users

CORE COMPETENCIES

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

PROFESSIONAL EXPERIENCE

Siege Analytics | Partner - Austin, TX 2020 - Present

Data Science & Political Analytics

- Discovered 2.7M misclassified Democratic voters through data analysis
- Built algorithm that reduced mapping costs by 73.5%, saving organizations $4.7M
- Created redistricting platform used by thousands of analysts nationwide

Lake Research Partners | Senior Data Scientist - Washington, DC 2018 - 2020

Political Research & Analytics

- Trained team on Python tooling for automated report generation
- Built statistical models for high-profile political campaigns
- Created automated reporting systems for survey research

The Praxis Project | Technical Director - Oakland, CA 2015 - 2018

Technology & Data Infrastructure

- Built 25 Drupal sites integrating with membership databases and activism CRMs
- Created data infrastructure for community organizing campaigns
- Developed custom modules for nonprofit organizations

Salsa Labs | Senior Software Engineer - Washington, DC 2012 - 2015

CRM & Data Platform Development

- Built CRM system handling billions of records for tens of thousands of users
- Integrated with Government and Activism APIs for seamless data flow
- Optimized database performance for large-scale political operations

PCCC (FLEEM) | Research Analyst - Washington, DC 2010 - 2012

Political Research & Data Analysis

- Handled tens of thousands of calls using predictive dialer for political surveys
- Built statistical models for voter behavior analysis
- Managed large-scale data collection for progressive organizations

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The Feldman Group | Data Analyst - Washington, DC 2008 - 2010

Political Data Analysis

- Trained team on PHP/MySQL for data analysis and reporting
- Built demographic analysis tools for voter targeting
- Created data visualization tools for campaign strategy

KEY PROJECTS

Ballista Redistricting Platform (2020 - Present)

Cloud-based GeoDjango platform for redistricting analysis, used by thousands of analysts nationwide

Technologies: GeoDjango, PostGIS, AWS, Docker, React, Python

Impact: Reduced mapping costs by 73.5%, saving organizations $4.7M

Polling Consortium Dataset Meta-Analysis (2013 - 2016)

Comprehensive meta-analysis of polling data from tens of polling and mail firms with different methodologies and encoding systems, creating unified analytical framework

Technologies: Python, R, Statistical Analysis, Meta-Analysis, Data Standardization

Impact: Created $400M dataset that became foundation for modern electoral analytics, estimated current value exceeds $1B

TECHNICAL SKILLS

CODE *Python* (Advanced (Pandas, NumPy, Django, Flask)); *R* (Advanced (Statistical Analysis, Data Visualization)); *SQL* (Expert (PostgreSQL, MySQL, Complex Queries)); *JavaScript* (Intermediate (React, Node.js, D3.js)); *PHP* (Advanced (Drupal, WordPress, Custom Development))

COMPUTE *AWS* (Advanced (EC2, S3, RDS, Lambda, CloudFormation)); *Docker* (Advanced (Containerization, Orchestration)); *Linux* (Expert (Ubuntu, CentOS, System Administration)); *Git* (Expert (Version Control, Collaboration, CI/CD))

INTERACT *Drupal* (Expert (4-10, Custom Modules, Multi-site)); *Django* (Advanced (GeoDjango, REST APIs, Authentication)); *Flask* (Intermediate (Web Applications, APIs, Microservices))

MEASURE *ArcGIS* (Expert (Desktop, Pro, Server, Spatial Analysis)); *QGIS* (Advanced (Open Source GIS, Plugins, Automation)); *PostGIS* (Advanced (Spatial Databases, Queries, Analysis)); *GDAL* (Advanced (Geospatial Data Processing, Conversion))

PLATFORMS *Tableau* (Advanced (Data Visualization, Dashboards, Server)); *Power BI* (Intermediate (Business Intelligence, Reports)); *Jupyter* (Advanced (Data Science, Notebooks, Visualization))

TRACK *Git* (Expert (Version Control, Collaboration, CI/CD)); *Jira* (Advanced (Project Management, Issue Tracking))