**Dheeraj Chand**

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## PROFESSIONAL SUMMARY

Strategic Product & Platform Professional with 15+ years of experience conceiving, architecting, and delivering innovative software products and platforms. Expert in product management, technical architecture, and B2B SaaS development with proven success leading cross-functional teams and launching platforms used by thousands of users. Deep expertise in translating complex business requirements into scalable technical solutions, managing product lifecycles, and driving product strategy.

## CORE COMPETENCIES

Product Management & Strategy • Technical Product Development • Platform & Infrastructure

## PROFESSIONAL EXPERIENCE

### PARTNER - Siege Analytics, Washington, DC | 2005 – Present

Product Development and Platform Architecture

• Conceived, architected, engineered and deployed cloud-based redistricting software used by thousands of analysts nationwide

• Designed, architected and created multi-tenant data warehouse tracking decades of political, geographical, econometric change

• Developed and deployed custom research software that processed billions of consumer records for pattern analysis, fraud detection and entity resolution

• Built multi-tenant data infrastructure supporting concurrent access from diverse client organizations

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

Product Strategy and Platform Development

• 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

• 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

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

Product Development and Humanitarian Technology

• 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

• Conceived and built application using Python, Pandas, and Jupyter to predict how crisis economies respond to different humanitarian interventions

• Liaised with officers from International Federation of Red Cross, UNICEF, and Chaos Communications Congress to improve platform using Docker and Ubuntu

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

Product Development and Research Platform

• 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 for RACSO platform

• Built prototype in R for comprehensive polling administration and sample file management

• Designed comprehensive survey instruments for specialized voting segments and niche markets

## KEY ACHIEVEMENTS AND IMPACT

### Product Innovation & Development

• Conceived, architected, engineered and deployed cloud-based redistricting software used by thousands of analysts nationwide

• Developed RACSO platform for pollsters to fully administer research, analyzing bids from 1,200 vendors before selecting implementation partner

• Engineered FLEEM system using Twilio API for thousands of simultaneous phone calls for IVR polls supporting Senators Martin Heinrich and Elizabeth Warren

• Built the first collaborative and multi-actor contributed poll of polls used by the Democratic Party, later becoming the Polling Consortium Database at The Analyst Institute

### Platform Architecture & Strategy

• Designed, architected and created multi-tenant data warehouse tracking decades of political, geographical, econometric change

• Wrote five-year strategic plans for developing data warehouse that became basis of company's distinguishing products

• Developed SimCrisis platform for humanitarian intervention modeling used by International Red Cross and UNICEF

• Built multi-tenant data infrastructure supporting concurrent access from diverse client organizations

### Technical Leadership & Management

• Managed teams of seven to eleven engineers, designers, analysts, and external stakeholders across multiple product initiatives

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

• Developed advanced data pipelines for machine learning applications enhancing consumer segmentation and predictive modeling

• Trained analytical and engineering staff on open source geospatial technology for analysis, segmentation, and visualization

## TECHNICAL SKILLS

PRODUCT MANAGEMENT & STRATEGY Product Conception & Ideation; Product Architecture & Design; Product Lifecycle Management; B2B SaaS Development

TECHNICAL PRODUCT DEVELOPMENT Full-Stack Development; Cloud Platforms; Big Data Technologies; API Development

PLATFORM & INFRASTRUCTURE Multi-tenant Architecture; Data Warehousing; Geospatial Platforms; Security & Compliance

For a more detailed, full description of my experience, please visit my LinkedIn and Personal Site.