

CONTACT

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EDUCATION

M.S. IN COMPUTER SCIENCE & DATA SCIENCE (MAY 2017)
BACHELOR OF SCIENCE IN ENGINEERING
CERTIFICATE IN ENGINEERING MANAGEMENT

University of California, San Diego
 University of Colorado Boulder
 University of Colorado Boulder

TECHNICAL SKILLS

PROFICIENT LANGUAGES
DATABASES
ANALYTICS PLATFORMS
AREAS OF EXPERTISE

Python, Linux, SQL, Ruby, R, C++, MATLAB
 Hadoop, Spark, SQLServer, PostgreSQL, MySQL, GIS
 Amazon Web Services (AWS), Google Analytics, Tableau, Microstrategy
 Map Reduce, Data Mining, Machine Learning, ETL, Cross-Platform Analytics

WORK EXPERIENCE

CAROLLO ENGINEERS, SAN FRANCISCO, CA
ANALYTICS ENGINEER

May 2014-Present

Strategic Technology Solutions Group: Data Analysis for Engineering and IT related projects. My team works to identify, analyze and interpret trends or patterns in large complex data sets. I designed our cost estimating database schema, introduced business analytics tools to the team, and helped to foster a continuous growth strategy with our clients; topics include asset management, predictive analytics, strategic financial planning for utilities.

SNOWGATE STARTUP, BOULDER, CO
RESEARCH DESIGN ENGINEER

Jan 2013-May 2013

Performed R&D for a high-tech kiosk that networked with an Uber-style app for mobile phones. Product sold to Safemark Systems after \$375,000 investment. Designed product using SolidWorks 2012.

AEI CONSULTANTS, WALNUT CREEK, CA
ENGINEERING INTERN

May 2011-May 2012

Assisted engineer in design and wiring of programmable logic controller (PLCs) for pump system interfaces. Used AutoCAD, CorelDraw, GIS software to communicate project specifications.

TECHNICAL WORK SAMPLE @ github.com/mas-dse-rriopele/WorkSamples**PCA, K-MEANS FOR IMAGE CLASSIFICATION USING ANIMAL DATASET**

- Bash scripting, PCA and K-means using sklearn, hierarchical clustering (scipy), showed the position of each animal using matplotlib.

TWITTER API FOR SENTIMENT ANALYSIS

- Python based API to collect streaming data of live tweets
- Sentiment analysis using TF-IDF

ETL & ANALYSIS OF ESPN DATA

- Scraped and cleaned ESPN data from the baseball stats websites
- Python (NumPy, pandas, matplotlib) based analysis on the data

RELATIONAL DATABASE FOR SALES DATA

- Designed and optimized database schema using E/R diagrams (Cube Schema)
- Created database on Amazon AWS instance (EC2)
- Reduced query and maintenance cost by using optimized relational algebra, indices, and materialized views.

RELATIONAL DATABASE FOR SOCIAL MEDIA DATA

- Designed and optimized database schema using E/R diagrams (Star Schema)
- Created database on Amazon AWS instance (EC2)
- Reduced query and maintenance cost by using optimized relational algebra, indices, and materialized views. project specifications.