

Dan DeCapria

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Education

Carnegie Mellon University

Master of Information Systems Management, Business Intelligence

Bachelor of Science in Physics, Astrophysics

Bachelor of Science in Mathematics

Pittsburgh Pennsylvania, United States

August 2010 – December 2011

August 2003 – May 2007

August 2003 – May 2007

Experience

CivicScience Inc.

Senior Business Intelligence Specialist

Pittsburgh Pennsylvania, United States

February 2012 – June 2015

Performed research, development, and project management roles with respect to the creation of interoperable distributed OLAP and ML focused 'Big Data' systems and deliverables for customer reporting KPIs and client specific data analysis. Developed novel algorithmic and applied mathematics techniques and integrated optimizations into complex production reporting systems. Some specific achievements are as follows:

- Reduced monthly IaaS costs by 60% by implementing a daily Hadoop delta ETL updating OLAP source data
- Automated monthly data reporting framework which freed up two worker units in time every month
- Implemented a real-time Fraud Detection mechanism for classifying individuals based on prior response histories
- Executed a scheduler-backed lexicographical framework for permutation space traversal of contingency table's p-values
- Built a data warehouse ingesting streaming data for generic business logic queries with real-time alerting
- Identified temporal periods for population marketing segment shifts of Likert ordinal data in Hadoop
- Constructed a Hadoop OCF Matrix Factorization prototype for mitigating sparse matrix datasets
- Client for Heinz MISM Capstone Team on data analysis and mobile framework prototype creation
- Apache Open Source projects utilization and contribution to Pig, Storm, Spark message boards

Carnegie Mellon University Mathematics Department

Teaching Assistant

Pittsburgh Pennsylvania, United States

August 2010 – March 2011

January 2005 – January 2007

Coordinate and administer recitation sections, grade assignments and exams, proctor exams, provide out of class office hours and constructive feedback for students on the subject of Calculus. Topics included Limits, Differentiation, Integration, Sequences and Series, Approximation and Analysis.

Nokomis Inc.

Scientist

Charleroi Pennsylvania, United States

June 2007 – April 2009

Performed theoretical analysis, experimental procedures and business processing on Department of Defense related parent technologies. Investigated prototype proposals and solutions, created new and efficient algorithms and system development techniques for Custom Off-The-Shelf applications. Required to address niche technology markets and viable solutions for government contracts in a fast paced, quick turn-around small business environment. Specific proficiencies were as follows:

- Antenna Ranges, Anechoic Chambers, Broadband and Conformal Antenna Theory, Computational Electrodynamics Modeling, Communications and Digital Signals Processing, Phased Array Radar, User Interface Development

Technical Skills

Languages

Frameworks

AWS Services

Systems

OS

Java, PHP, R, JavaScript, Python, Bash, VBA, C, Ruby

Hadoop, Pig, Storm, Spark, Hive, Mahout, D3, MVC, CodeIgniter

EMR, EC2, SQS, S3, Redshift, Kinesis, DynamoDB, VPC

Cassandra, Kafka, MySQL, Weka, Mallet, Matlab, Maple, Mathematica, Memcached, Node, Ganglia, Apache

Linux, Ubuntu/Debian, RHEL/CentOS, Windows NT, OSX