Thomas Gadfort

1163 Timberlane Ct • Naperville, IL 60540
206.351.4510 • tgadfort@gmail.com

Data Science & Quantitative Analysis Professional

Driven, technically-savvy professional with a decade of accomplishments in scientific research in experimental particle physics and the fields of data science and quantitative analysis. Experience collaborating with and leading diverse, international teams on the analysis of large, complex data for the U.S. Department of Energy. Exceptional communicator with experience presenting results and drafting content for a variety of collaboration materials and publications. Ph.D. with a history of academic excellence.

Areas of Strength

Data Modeling • Statistical Analysis • Research • Big Data • Data Mining • Public Speaking • Team Leadership

PROFESSIONAL EXPERIENCE

ANTHEM INC, Chicago, IL **Senior Data Scientist**, 2016 - Present
Lead model builder for the consumer health profile initiative

- Primary technical developer for consumer profile predictive models, designed to improve cost-of-care (CoC) savings for expensive medical procedures.
- Lead author of Python/R-based framework connecting Teradata claims data to in-house Hadoop system.

KARVY ANALYTICS LTD, New York City, NY **Senior Data Scientist**, 2015 - 2016
Consultant for a leading health insurance company in the United States.

- Served as lead data scientist for the American division of Karvy, based in Hyderabad, India. Responsible for technical discussions during client presentations.

OPEN DATA GROUP, River Forrest, IL **Technical Staff**, 2014 - 2015
Leader of real-time cyber security model development team.

- Advanced anomaly detection techniques using real-time internet data from several Fortune 500 company networks. Daily traffic and detection alert-rates summarized using Hadoop and R scripts.

FERMI NATIONAL ACCELERATOR LABORATORY, Batavia, IL **Associate Scientist**, 2012 - 2014
Responsible for scientific data analysis and project management for the U.S. Department of Energy.

- Developed analysis method to measure muon storage ring properties from high-volume time-dependent signals using customized GLM regression techniques.

BROOKHAVEN NATIONAL LABORATORY, Upton, NY **Goldhaber Fellow**, 2009 - 2012
Three-year appointment to support scientific research for the U.S. Department of Energy.

- Collaborator of the ambitious and renowned ATLAS experiment team, coordination of analysis and mining efforts, and sophisticated statistical analysis of data including groundbreaking Higgs Boson discovery.

COLUMBIA UNIVERSITY, New York, NY **Postdoctoral Researcher**, 2007 - 2009
Postdoctoral fellow for the private Ivy League research university located in NYC.

- Served as a group leader during the development of a highly efficient algorithm to identify bottom-quark jets using boosted decision trees and neural networks.

EDUCATION & HONORS

Ph.D., High Energy Physics, University of Washington, Seattle, WA (2007)
Eugene Kenneth Miller Award for Graduate Research

B.A., Physics and Mathematics, University of Tennessee, Knoxville, TN (2001)

SOFTWARE & TECHNICAL EXPERTISE

- Office and OS Applications – Windows, Unix, Mac, MS Office, and Mac OS Office Suite (Keynote, Pages)
- Programming Languages – R, Python, C, C++, FORTRAN, PHP, Java/Scala, Perl, Shell scripting
- Big Data Tools – Hadoop (HDFS, Hive), Teradata SQL, Spark, MS Azure, scikit-learn (Python), Caret (R)
- Machine Learning/Modeling – Multidimensional clustering, Regression, Decision trees, Neural Networks