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SUMMARY

A data scientist with strong skills in exploratory data analysis, graphical analysis, statistics, hypothesis testing and predictive analytics. Flexible and always eager to learn new domains and skills. Obtains reliable solutions to real-world problems by combining domain knowledge with analytics and verification of underlying assumptions.

- Predictive modelling / Experimental design and analysis
- Graphical / dashboard / web reporting
- Exploratory data analysis / visualization (SAS,R, STATA)
- Data extraction / cleaning / ETL
- Technical reports / presentation
- Technical curriculum / training
- Multivariate experimental design, A/B testing
- Quantitative modeling, business analytics
- Extensive SQL experience developing summary and detailed reports and web applications
- Created web application graphical presentations, data visualizations and GUIs
- Developed, prepared and delivered statistical training materials.
- Developed conducted and published statistically designed experiments.
- Applied SQC processes and designed experiments to a semiconductor assembly line.

EMPLOYMENT HISTORY

Business Analyst, **Credit Suisse**, New York, NY   2004 - 2014

- **Provided SQL solutions** for complex Control M generated Oracle relational database (RDBMS)
- **Application strategy optimization using analysis of user behavior logs and operations data** using trends, correlation analysis, ROI, information visualization, business analytics, etc.
- **Provided trend analysis for operational data analytics;** designed and developed companywide batch optimization tool (Global Batch Analysis).
- **Application enhancement data architecture, business analysis and project management** utilizing both SQL Server and Oracle relational databases.
- **Requirements gathering, project management and release management** of application enhancements.
- **Support, planned and unplanned maintenance and troubleshooting** of web-based applications.

Internet Specialist, **Hazlet SV , Industrial Sewing Machine Man LLC**, Hazlet NJ   2003 – 2008 (part-time to present)

- **Extensive experience with Access databases** including SQL, forms, reports and data architecture.
- **Designed, developed and hand-coded web user interface and relational database** for e-commerce web site with administration module.
- **Currently managing transition to commercial ecommerce platform** including strategy, project management, data migration, etc.

Systems Analyst, **GE Capital**, New York, NY   2000 - 2003

- **External customer-facing web application GUI design** and development; focus on effective data visualization and UX. Using HTML / CSS / XSLT.

Statistician, **Universal Instruments**, Binghamton NY   1995 - 1999

- **Developed reliability assessment and verification program** for complex hardware/software based equipment, utilizing nonhomogeneous Poisson process (NHPP) and Weibull models
- **Provided statistical support for verification of placement precision** of integrated circuit chips using traditional inferential statistics and SQC.
- **Developed training materials and taught class on elementary statistics** to operations personnel
  Wrote company-wide Reliability program manual documenting reliability verification processes, software release requirements, reporting strategies, etc.
- **Developed reliability assessment program** for industrial equipment, applied survival analysis statistical modeling to both hardware and software failures.

Research Associate, **W.L. Gore & Associates**, Newark, DE   1989 – 1995
- **Conducted sophisticated SAS analyses of product performance**; documented findings in reports both internally and published and presented in industry publications and conferences.

Quality Engineer, **AT&T ME**, Allentown, PA   1982 - 1988
- **Applied statistical quality control analytics extensively**, including ANOVA (for designed experiments), statistical process control and process improvement, data quality analytics.

EDUCATION
Master of Arts, Economics, 2014, New York University, New York, NY
- **Related Courses:** Advanced Empirical Methods, Econometrics I & II, Special Project
- **Worked extensively with survey data** in Econometrics, Advanced Empirical Methods, and Special Projects classes utilizing various predictive analytics and regression techniques.
- **Experience manipulating and analyzing massive data sets** as a part of original research requirements.
- **Produced academic reports** documenting related research, data sources, methodology, results and conclusions.

Master of Arts, Applied Statistics (not finished), University of Delaware, Newark, DE
- **Related Courses:** Regression Analysis, Probability Theory and Applications, Design and Analysis of Experiments I & II, Mathematical Statistics, Multivariate Methods

Bachelor of Industrial Engineering (with Honors), Georgia Institute of Technology, Atlanta, GA
- **Academic focus** on applied statistics and operations research
- **Grader** for Statistical Quality Control class.

MOOC and Short Courses (certifications available)
R Programming, Getting and Cleaning Data, Johns Hopkins University (via Coursera), September – October 2014.
SAS Programming – Essentials, SAS Institute, September 2014.
Mining Massive Datasets, Stanford University (via Coursera), October – November, 2014.
Regression Models, Johns Hopkins University (via Coursera), December, 2014.
Exploratory Data Analysis, Johns Hopkins University (via Coursera), January, 2015.
Applying Data Science Using Apache Hadoop, Hortonworks University, February, 2015.
Practical Machine Learning, Johns Hopkins University (via Coursera), March, 2015.
Developing Data Products, Johns Hopkins University (via Coursera), (In progress).

TECHNICAL SKILLS
- **Statistical Analysis and Visualization Tools:** STATA, SAS, R, Minitab, Excel, Tableau
- **Scripting/Programming:** R, VBScript, python, Windows batch scripting, ASP 3, perl
- **Databases:** SQL, Access 2010, Oracle 11g, SQL Server 2008, RDBMS
- **Database Tools:** TOAD, Embarcadero RapidSQL, Allround PL/SQL Developer
- **Web Technologies:** HTML/CSS, JavaScript, AJAX, VML, XML, XSLT
- **Currently Studying:** ETL, R, Tableau, Python, Hadoop Hive and Pig, Apache Spark, NLP.