John Hilbert

Jack-of-All-Analytics

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> Highly **organized**, self-**motivated**, and welcoming of **challenges**

> Proficient at **problem-solving**, showing business **foresight**, and generating **innovative** ideas in a variety of environments

> Strongly values **documentation**, **follow-up**, and **follow-through** whether working **independently** or as a **member** of a project team

EXPERIENCE

2017-2016 **Manager of Advanced Analytics & Modeling** at **Highmark Health**
Built a robust enterprise level data science team in the heart of a division wide restructuring ■ Fostered use of novel data, technologies, and methods in the company for analytical use ■ Built sound analytical practices dwelling on organization, quality, and documentation ■ Notable projects include:
- ■ Developed methods of uncovering optimal health service locations (**R**)
- ■ Strategically created hierarchical geographic market segments for use throughout the enterprise (**R**)

2016-2015 **Lead Data Scientist** at **Innovu, LLC.**
Promote innovative and robust analytics in the healthcare and employee benefit community ■ Develop and maintain full business intelligence stack (from raw data, groomed analytic layer, to advanced consumer metrics) for internal and external customers (**AWS RedShift**, **Python**) ■ Ingest and unite various data sources in collaboration with data engineering team ■ Contribute to long term company analytic strategies in addition to sustaining an agile analytic development team utilizing novel algorithms and open source technology ■ Serve as medical insurance and analytic domain expert ■ Created and operationalized 'Golden' member matching algorithm (**Python**)

2015 – 2010 **Data Scientist** at **UPMC Health Plan, Division of Health Economics**
Uncover insight to assist product owner and executives in making informed yet actionable decisions ■ Further the benefit and proper use of analytics throughout the organization ■ Collector and custodian of various internal and external data ■ Departmental liaison and advisor for teams and departments on software and analytics ■ Notable projects include:
- ■ Provider profiling and social network modeling, analysis, and visualization (**GEPHI** / **R**)
- ■ Promotion and design of (**d3.js** / **Tableau**) dashboards and data visualization
- ■ Financial time series projections for corporate budget for each business line
- ■ Error detection / correction of provider records via network analysis models (**R**, **SQL**)

2010 – 2008 **Lead Quality Analyst** at **Thomson Reuters** (formerly Aegisoft, LLC)
Black-box testing algorithmic trading platform ■ Management of off-site team ■ Creation of standard operating procedures and training materials ■ Serve as financial market SME

2008 – 2007 **Quantitative Analyst** at **Transmarket Group, LLC**
Participated in research projects pertaining but not restricted to high-frequency equity research involving time series analysis (**MATLAB**) ■ Created and supported applications such as daily models which enabled traders to analyze their portfolio risk in relation to market behavior (**C#**) ■ Analyzed and optimized the trading group's market simulation using a custom multi-threaded genetic algorithm (**C#**)

2007 – 2004 **Adjunct Professor** at **University of Pittsburgh**

Research Assistant to **Dr. Eric Swanson** at **University of Pittsburgh**

SKILLS

Classical & Bayesian Statistics	Financial Markets	R	Matlab
Data Mining Algorithms	Healthcare Data	Python	SAS
Time Series Analysis	Web Design & Dev	DB ETL &	Tableau
Data Visualization	Agile / SCRUM	Modeling	AWS

EDUCATION

2010 **MBA Essentials Certificate** at **University of Pittsburgh**

2008 **Masters of Science** (ABD) in **Physics** at **University of Pittsburgh**

2003 **Bachelors of Science** in **Physics** at **Kent State University**
Bachelors of Science in **Mathematics** at **Kent State University**

HONORS

Pi Mu Epsilon Senior **Mathematics** Award ■ Center of Nuclear **Physics** Award ■ Physics **Leadership** Award for creating and presiding over Kent State's Society of Physics Students ■ Boy Scouts of America **Eagle Scout**