Russ Robbins

My portfolio can be found at https://robbinsr.squarespace.com.

CONTACT INFORMATION

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EDUCATION

University of Pennsylvania - Philadelphia, PA
Certificate - Business Analytics
Present

University of Washington - Seattle, WA
Certificate - Machine Learning
Present

University of Washington - Seattle, WA
Data Science at Scale
Present

University of California, Berkeley - Berkeley, CA
Certificate - Big Data
August 2015

Johns Hopkins University - Baltimore, MD
Certificate - Data Science
May 2015

Rensselaer Polytechnic Institute - Troy, NY
Ph.D. Engineering Science
December 2005

Rensselaer Polytechnic Institute - Troy, NY
M.S. Information Technology
December 2004

Binghamton University - Binghamton, NY
M.S. Accounting
May 1997

University of Missouri - Columbia, MO
B.S. Finance
December 1990

EXPERIENCE

Data Engineer at Engage Data, UnLimited

Selinsgrove, PA - August 2014 to present

* Applying machine learning and statistics to analyze data.
* Use databases, enterprise systems, business intelligence applications, data warehouse software.
* Employ classic statistics, statistical programming, and general purpose programming.
* Leverage big data product offerings and cloud services.
* Models focus on regression, classification, and clustering.
* Algorithms focus on automating model selection.
* Metrics focus on balancing need to predict vs. need to understand business process / environment.

Researcher, Software Engineer, Assistant Professor at Susquehanna University

Selinsgrove, PA - August 2013 to August 2014

* Built RDF declarative graph of English .

Project Manager, Engineer, Visit. Asst Professor at University of Pittsburgh

Pittsburgh, PA - August 2008 to August 2013

* Taught 1925 students project management and data analysis.
* Managed a $23,000 budget, short schedules, and 7 stakeholders, and risks driven by customers values.
* Managed a $5,200 budget, short schedules, 1000+ students, and 100+ requirements.
* Managed $101,491 budget, a 3-year schedule, 10 staff, 200+ students, and 100+ requirements.
* Managed $20,000 budget, a 2-year schedule, 3 contracts, 10+ stakeholders and 100+ requirements
* Integrated and used standards prescribed by Project Management Institute and IEEE.

Project Manager, Researcher, Assistant Professor at Marist College

Poughkeepsie, NY - August 2005 to August 2008

* Led software engineering projects at Philips Electronics, NXP Semiconductors, and IBM.
* User interfaces followed usability principles.
* Code built upon design patterns.
* Architecture leveraged customers infrastructure.
* Used IEEE Standards for quality assurance, documenting tests, user documentation, and configuration.
* Used UML Use Case, Activity, Class, Sequence, Communication, State, Component diagrams.
* Used entity-relationship and data-flow diagrams.

EXPERIENCE (continued)

Researcher, Clinical Asst. Professor at Rensselaer Polytechnic Institute

Troy, NY - January 2001 to July 2005

* Collected data using observation, surveys, video/audio recording.
* Designed, developed, verified, validated, and used ethics decision making simulation.
* Led software engineering projects at MapInfo (geo-spatial analytics) and GE.
* Used IEEE Standards for scoping, requirements management, and design development.

Project Manager, Software Engineer at Achaean Technology Watervliet, NY - January 1998 to December 2000

* Designed and developed first-to-market enterprise software for agencies providing services to the intellectually disabled.

Business Systems Analyst at Rensselaer Polytechnic Institute

Troy, NY - September 1997 to December 2000

* ETLed 1.4 million person/course units, 68,000 student records, 44,000 degrees from mainframe software to Oracle 7.
* Developed data warehouse by using Brio, Informatica, Unix shell scripts, PL/SQL, and production data.

SKILLS

Training approaches and tools (e.g. project-based; problem-based)
R libraries (e.g. caret; ggplot2)
Python packages (e.g. PySpark; Pandas; GraphLab; BeautifulSoup)
Statistics toolboxes (e.g. MATLAB; Stata)
Statistics fundamentals (e.g. A/B Testing; Linear Regression)
Project management (e.g. Expectations/Relationship Management; Estimating) Programming utilities (e.g. GitHub; Maven)
Programming fundamentals (e.g. Lambda Expressions; Closures)
Programming / Declarative Languages (e.g. Python; RDF)
Machine learning fundamentals (e.g. Cross-Validation; Gradient Descent)
Graphically-oriented toolboxes (e.g. RapidMiner; SAP Crystal Reports
Development processes (e.g. Traceable Requirements; Design Patterns)
Development environments (e.g. Eclipse; PyCharm)
Databases (e.g. Oracle; Cassandra)
Analytics Fundamentals (e.g. SQL; Graph Theory)