Russ Robbins

My portfolio is available at https://robbinsr.squarespace.com .

CONTACT INFORMATION

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EXPERIENCE

Data Engineer at Engage Data, UnLimited
Selinsgrove, PA – September 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, Asst. 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.

EXPERIENCE (continued)

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 customer's 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.

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.

Accounting Clerk at IBM
Binghamton, NY – May 1990 to May 1994

- Led team that delivered $3 billion annually to suppliers and governments.

Radio Operator in US Army
Fort Huachuca, AZ – August 1985 to August 1987

- Chauffeured lieutenant colonel, major, and command sergeant major. Honorable Discharge.

SKILLS

My skills fall into the following very high level categories.

- 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)