Russ Robbins

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

CONTACT INFORMATION

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EXPERIENCE

Building technical skills and searching for employment

Selinsgrove, PA – September 2014 to present

o Installed, configured, and used Oracle 11g/12c, WebLogic, SQL*Plus, SQL Developer
o Used Python, for example, to validate and transform 48,585 records before Oracle load
o Used R, for example, to run and document a 561 column crosswalk across 10,300 records
o Learned and used Ubuntu Linux to reacquaint myself with Unix
o Learned and used JavaScript, CSS3, and HTML5 to build professional portfolio
o Learned and used MongoDB, Cassandra, and GraphDB to begin understanding NoSQL
o Learned and used Amazon Web Services EC2 and S3 to acquaint myself with cloud services
o Used PySpark, for example, for principal components analysis of firing neurons.
o Used Lasso L2 regularization, for example, to winnow features from twenty to two
o Used Ridge L1 regularization, for example, to balance variance and bias
o Used Stanford Protégé and TopBraid Composer to build an ontology of standard English
o Used AllegroGraph to store an operationalized standard English ontology
o Used grid search, for example, to predict song release year based on audio features
o Used one-hot-encoding, hashing, and logistic regression to predict click-through rates
o Used TF-IDF and Cosine similarity to classify documents based on entity resolution.
o Used MLlib and collaborative filtering to make recommendations.

Assistant Professor at Susquehanna University

Selinsgrove, PA - August 2013 to August 2014

o Taught course that focused on analysis and design portions of SDLC to business students
o Taught planning concepts such as drivers, constraints, issues, tasks, risks, and costs
o Taught students how to document requirement traceability through SDLC activities
o Reinforced importance of driving work breakdown, schedule, and budget via SDLC
o Students developed requirements as well as their rationale, priorities, and measures
o Students documented AS IS processes and AS IS data stores for business event use cases
o Students designed TO BE processes, TO BE data stores for business event use cases
o Students built TO BE prototype forms, TO BE reports, and TO BE navigation schemes

EXPERIENCE (continued)

Visiting Assistant Professor at University of Pittsburgh

Pittsburgh, PA - August 2008 to August 2013

o In project manager role, across four projects, managed:
  - $101,491, 3-year schedule, scope risks, 10 staff, 200+ students, and 100+ requirements
  - $23,000, short schedules, technology risks, and collaborated with 7 stakeholders
  - $5,200, short schedules, customer risks, 1000+ students, and 100+ requirements
  - $20,000, 2-year schedule, 100+ requirements, and collaborated with 10+ stakeholders
o In developer role, used, for example, MySQL, Tomcat, Eclipse, Java EE, Java Server Pages
o In teaching role, taught SAP, SQL, RapidMiner, and data analysis
In teaching role, taught project scope, risk, time, cost, and quality management

Assistant Professor at Marist College

Poughkeepsie, NY - August 2005 to August 2008

o In customer liaison role, led software projects at NXP Semiconductors and IBM
o In developer role, tools used included ASP.Net, JavaScript, DB2, and SQL Server
o In project manager role, used IEEE Standards for example, for testing and configuration
o In designer role, used UML Use Case, Activity, Class, Sequence, State diagrams
o In designer role, used entity-relationship (ERD) and data-flow (DFD) diagrams
o In teaching role, helped students learn Microsoft Visio and the Rational Rose Suite

Clinical Assistant Professor at Rensselaer Polytechnic Institute

Troy, NY - January 2001 to July 2005

o In customer liaison role, led software projects at GE Specialty Materials and MapInfo
o In developer role, technologies included SAP, VBScript, IIS, and SQL Server
o In project manager role, used IEEE Standards for example, for scoping and requirements
o In developer role, developed and tested web application to support decision making
o In developer role, developed and tested Java program to simulate decision making
o In teaching role, helped students learn Microsoft Access, Excel, and PowerPoint

Project Manager at Achaean Technology

Watervliet, NY - January 1998 to December 2000

o Developed prototype web app software for social service agencies
o Designed, built, and maintained SQL Server database and VBScript forms

EXPERIENCE (continued)

Business Systems Analyst at Rensselaer Polytechnic Institute
Troy, NY – September 1997 to December 2000
- o Used Informatica, Unix scripts, PL/SQL, Oracle, Oracle Forms, SQL*Plus, SQL Developer
- o Collaborated with business process owners, built crosswalk, and requirements.
- o Co-transformed and co-loaded 1.4 million records from mainframe to Oracle 7
- o Built several reporting applications
- o Built a proof-of-concept data warehouse that successfully justified project funding
- o Replicated production environment in data warehouse and wrote update scripts
- o Developed requirements and user documentation for the ERP system web interface
- o Created indexes making data access 55 times faster than in production environment
- o Installed upgrades to and executed patches to Oracle

Accounting Clerk at IBM
Binghamton, NY – May 1990 to May 1994
- o Led team that delivered $3 billion annually to suppliers and governments

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

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

SKILLS

My skills fall into the following very high level categories:

- o Databases (e.g. Oracle, MySQL, SQL Server)
- o Development environments (e.g. Eclipse, WebStorm, PyCharm)
- o Development processes (e.g. Traceable Requirements, Testing, Validating, Verifying)
- o Graphically-oriented analytics toolboxes (e.g. RapidMiner, SAP Crystal Reports)
- o Programming and Declarative Languages (e.g. Java, Python, R, SQL, XML)
- o Programming fundamentals (e.g. Lambda Expressions, Data Structures)
- o Programming utilities (e.g. GitHub, Maven)
- o Programming resources (e.g., Stack Overflow, CodePen, Regex Testers)
- o Project management (e.g. Expectations/Relationship Management, Cost Estimating)
- o Python packages (e.g. PySpark, Pandas, GraphLab, BeautifulSoup)
- o R libraries (e.g. caret, ggplot2, ShinyApps, knitr, lattice, rmarkdown)
- o Training approaches and tools (e.g. project-based, problem-based)

EDUCATION

o University of California, Berkeley - Certificate - Big Data August 2015
o Johns Hopkins University - Certificate - Data Science May 2015
o Rensselaer Polytechnic Institute - Ph.D. Engineering Science December 2005
o Rensselaer Polytechnic Institute - M.S. Information Technology December 2004
o Binghamton University - M.S. Accounting May 1997
o University of Missouri - B.S. Finance December 1990

EDUCATION (in process)

o University of Pennsylvania - Certificate- Business Analytics
o University of Washington – Certificate – Machine Learning
o University of Washington – Certificate – Data Science at Scale
o University of California, San Diego – Certificate – Big Data