

Russ Robbins

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portfolio: <https://robbinsr.squarespace.com>

SUMMARY

Envisioned, packaged, sold, and managed six IT innovations and tens of traditional IT projects. Led hundreds of individuals on tens of IT projects. Incorporated thousands of off-the-shelf software programs. Taught 3000+ students. Capable salesperson, leader, knowledge engineer, statistician, programmer, SQL/NoSQL database administrator, machine learning advocate, and systems administrator.

EXPERIENCE

Job Seeker

Selinsgrove, PA

September 2014 to present

- Designed ontology of the English language with Stanford Protégé and TopBraid Composer
- Implemented ontology in GraphDB, AllegroGraph, and StarDog
- Discovered neuron firing patterns with principal components analysis
- Winnowed statistically predictive features from twenty to two with Lasso L2 algorithm
- Balanced statistical variance and bias by leveraging Ridge L1 algorithm
- Predicted song release year based on audio features by searching grid.
- Anticipated click-through rates via one-hot-encoding, hashing, and logistic regression to
- Classified documents based on TF-IDF and Cosine similarity entity resolution
- Recommended projects by filtering collaboratively with MLIB.
- Employed Oracle 11g/12c, WebLogic, OBIEE, SQL*Plus, SQL*Developer, SQL*Loader, ODI, RCU, etc.
- Validated 48,585 records before Oracle load with Python and Pandas
- Executed a 561 column crosswalk across 10,300 records using R
- Built professional portfolio with JavaScript, CSS3, HTML5, etc.
- Understood NoSQL perspectives using MongoDB, Cassandra, GraphDB, and others
- Reclaimed knowledge of Unix by constructing Ubuntu and CentOS Linux ecosystems

Sales Person

Bill MacIntyre Chevrolet Buick

Lock Haven, PA

March 2016 to May 2016

- Transformed chance meetings into sales
- Translated cold calls into sales
- Converted customers into bird dogs (new customer prospectors)

Volunteer

Geisinger Medical Center

Danville, PA

February 2016 to April 2016

- Connected emotionally with patients
- Highlighted benefits of IT product, in the context of each patient's needs

Assistant Professor
Susquehanna University
Selinsgrove, PA
August 2013 to August 2014

- Challenged students to analyze an unsolved problem and design a solution
- Demarcated students' activities using drivers, constraints, issues, tasks, risks, and costs
- Guaranteed students' requirements could be traced forward and backward through the SDLC
- Grounded students' work breakdown, schedule, and budget in requirements
- Framed students' requirements in their respective rationales, priorities, and measures
- Documented students' business events' use cases in AS IS processes and AS IS data stores
- Enriched students' activities as they designed TO BE processes, TO BE data stores
- Scaffolded students as they created TO BE forms, TO BE reports, and TO BE navigation schemes

Visiting Assistant Professor
University of Pittsburgh
Pittsburgh, PA
August 2008 to August 2013

- Sold four software projects to National Science Foundation and the University of Pittsburgh
- Managed \$101,491, scope risks, 10 staff, 200+ students, and 100+ requirements, as project manager
- Directed \$23,000, reduced technology risks, and capacitated 7 stakeholders, as project manager
- Guided \$5,200, led 1000+ students, and addressed 100+ needs, as project manager
- Orchestrated \$20,000, realizing 100+ requirements with 10+ stakeholders, as project manager
- Built learning tool using MySQL, Tomcat, Eclipse, Java EE, Java Server Pages, as software developer
- Created analytics experiences in SAP, SQL, RapidMiner, as data modeler, and software developer

Assistant Professor
Marist College
Poughkeepsie, NY
August 2005 to August 2008

- Sold \$90,000 software project to National Science Foundation
- Sold several software projects to NXP Semiconductors, Philips Electronics, and IBM; managed same
- Assured software benefit using IEEE Standards, in project manager role
- Understood needs using UML Use Case, Activity, Class, Sequence, State diagrams, as analyst lead
- Designed solution with UML, entity-relationship (ERD), and data-flow (DFD) diagrams, as design lead
- Aided students documenting needs and fulfillment by teaching Rational Rose Software, as trainer

Clinical Assistant Professor
Rensselaer Polytechnic Institute
Troy, NY
January 2001 to July 2005

- Sold and managed several software projects at GE Specialty Materials and MapInfo
- Helped students scope and structure problems and needs using IEEE Standards, as project manager
- Constructed web application that supported decision making, as software developer
- Invented agent-based software that simulated group decision making, as software developer
- Taught 420 students, as instructor

Co-founder
Achaean Technology
Watervliet, NY
January 1998 to December 2000

- Sold enterprise software concept to 10+ executives and middle managers
- Motivated 10+ employees as they built, provided, and maintained application

Business Systems Analyst
Rensselaer Polytechnic Institute
Troy, NY
September 1997 to December 2000

- Collaborated with business process owners, built crosswalk, and requirements.
- Co-transformed and co-loaded 1.4 million records from mainframe to Oracle 7
- Constructed several reporting applications
- Built a proof-of-concept data warehouse that successfully justified project funding
- Replicated production environment in data warehouse and wrote update scripts
- Generated requirements and user documentation for the ERP system web interface
- Created indexes making data access 55 times faster than in production environment
- Installed upgrades to and executed patches to Oracle
- Employed Informatica, Unix scripts, PL/SQL, Oracle, Oracle Forms, SQL*Plus, SQL*Developer

Accounting Clerk
IBM
Binghamton, NY
May 1991 to May 1995

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

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

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

EDUCATION

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

Other education is in process at University of Pennsylvania and the University of Washington.

SKILLS

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

REFERENCES

DR. BRIAN S. BUTLER

Professor and Dean of the College of Information Studies
University of Maryland
301-405-2033, bsbutler@umd.edu
Brian was my supervisor at the University of Pittsburgh.

DR. WILLIAM E. HEFLEY

Clinical Professor of Information Systems in the Naveen Jindal School of Management
The University of Texas at Dallas
972-883-5006, William.Hefley@utdallas.edu
Bill was a senior colleague of mine at the University of Pittsburgh.

MS. SHARON L. KUNKEL

Registrar at the Office of the Registrar
Rensselaer Polytechnic Institute
518-276-6028, kunkes@rpi.edu
Sharon was my "dotted-line" supervisor and customer at Rensselaer.

DR. CHARLEY TICHENOR

Former staff to Chief Information Officer at the Internal Revenue Service
Lieutenant Colonel, Retired, US ARMY RESERVE
Assistant Professor, Marymount University
703-901-3033, Charley_tichenor@hotmail.com
Charley was a customer of mine at the IRS.

DR. WILLIAM A. WALLACE

Yamada Corporation Professor of Industrial and Systems Engineering
Professor of Civil and Environmental Engineering
Professor of Cognitive Sciences
Member, Faculty of Information Technology
518-276-6854, wallaw@rpi.edu
Al has been my teacher, mentor, patron, colleague, and friend.