Russ Robbins

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

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| **CONTACT INFORMATION**  570-884-3647  [russ.robbins@outlook.com](mailto:russ.robbins@outlook.com)  **EXPERIENCE**  **Building technical skills and searching for employment** Selinsgrove, PA – September 2014 to present   * Used PySpark, for example, for principal components analysis of firing neurons * Used Lasso L2 regularization, for example, to winnow features from twenty to two * Used Ridge L1 regularization, for example, to balance variance and bias * Used Stanford Protégé and TopBraid Composer to build an ontology of standard English * Used AllegroGraph to store and link objects according to standard English ontology * Used grid search, for example, to predict song release year based on audio features * Used one-hot-encoding, hashing, and logistic regression to predict click-through rates * Used TF-IDF and Cosine similarity to classify documents based on entity resolution * Used MLlib and collaborative filtering to make product recommendations * Configured, and used Oracle 11g/12c, WebLogic, SQL\*Plus, SQL Developer, SQL Loader   + Used Python, for example, to validate and transform 48,585 records before Oracle load   + Used R, for example, to run and document a 561 column crosswalk across 10,300 records   + Learned and used Ubuntu Linux to reacquaint myself with Unix   + Learned and used JavaScript, CSS3, and HTML5 to build professional portfolio   + Learned and used MongoDB, Cassandra, and GraphDB to begin understanding NoSQL * Learned and used Amazon Web Services EC2 and S3 to acquaint myself with cloud services   **Assistant Professor at Susquehanna University**  Selinsgrove, PA - August 2013 to August 2014   * Taught course that focused on analysis and design portions of SDLC to business students * Taught planning concepts such as drivers, constraints, issues, tasks, risks, and costs * Taught students how to document requirement traceability through SDLC activities * Reinforced importance of driving work breakdown, schedule, and budget via SDLC * Students developed requirements as well as their rationale, priorities, and measures * Students documented AS IS processes and AS IS data stores for business event use cases * Students designed TO BE processes, TO BE data stores for business event use cases * Students built TO BE prototype forms, TO BE reports, and TO BE navigation schemes |

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| **EXPERIENCE (continued)**  **Visiting Assistant Professor at University of Pittsburgh** Pittsburgh, PA - August 2008 to August 2013   * 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 * In developer role, used, for example, MySQL, Tomcat, Eclipse, Java EE, Java Server Pages * 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   * In customer liaison role, led software projects at NXP Semiconductors and IBM * In developer role, tools used included ASP.Net, JavaScript, DB2, and SQL Server * In project manager role, used IEEE Standards for example, for testing and configuration * In designer role, used UML Use Case, Activity, Class, Sequence, State diagrams * In designer role, used entity-relationship (ERD) and data-flow (DFD) diagrams * 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   * In customer liaison role, led software projects at GE Specialty Materials and MapInfo * In developer role, technologies included SAP, VBScript, IIS, and SQL Server * In project manager role, used IEEE Standards for example, for scoping and requirements * In developer role, developed and tested web application to support decision making * In developer role, developed and tested Java program to simulate decision making * In teaching role, helped students learn Microsoft Access, Excel, and PowerPoint   **Project Manager at Achaean Technology**  Watervliet, NY - January 1998 to December 2000   * Developed prototype web app software for social service agencies * Designed, built, and maintained SQL Server database and VBScript forms |

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| **EXPERIENCE (continued)**  **Business Systems Analyst at Rensselaer Polytechnic Institute** Troy, NY – September 1997 to December 2000   * Used Informatica, Unix scripts, PL/SQL, Oracle, Oracle Forms, SQL\*Plus, SQL Developer * Collaborated with business process owners, built crosswalk, and requirements. * Co-transformed and co-loaded 1.4 million records from mainframe to Oracle 7 * Built 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 * Developed 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   **Accounting Clerk at IBM** Binghamton, NY – May 1991 to May 1995   * 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:   * 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) * Training approaches and tools (e.g. project-based, problem-based)   Russ Robbins  **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   **EDUCATION (in process)**   * University of Pennsylvania - Certificate- Business Analytics * University of Washington – Certificate – Machine Learning * University of Washington – Certificate – Data Science at Scale * University of California, San Diego – Certificate – Big Data   **REFERENCES**   * DR. BRIAN S. BUTLER   + Professor and Dean of the College of Information Studies   + University of Maryland   + 301-405-2033   + [bsbutler@umd.edu](mailto:bsbutler@umd.edu)   + Brian was my supervisor at the University of Pittsburgh. * DR. WILLIAM E. HEFLEY   + Clinical Professor of Information Systems   + Naveen Jindal School of Management   + The University of Texas at Dallas   + 972-883-5006   + [William.Hefley@utdallas.edu](mailto:William.Hefley@utdallas.edu)   + Bill was a senior colleague of mine at the University of Pittsburgh. * MS. SHARON L. KUNKEL   + Registrar   + Office of the Registrar   + Rensselaer Polytechnic Institute   + 518-276-6028   + [kunkes@rpi.edu](mailto:kunkes@rpi.edu)   + Sharon was my “dotted-line” supervisor and customer at Rensselaer. |
| Russ Robbins  **REFERENCES (continued)**   * DR. CHARLEY TICHENOR   + Former staff to Internal Revenue Service CIO   + Lieutenant Colonel, Retired, US ARMY RESERVE   + Assistant Professor, Marymount University   + 703-901-3033   + [Charley\_tichenor@hotmail.com](mailto:Charley_tichenor@hotmail.com)   + Charley was a customer of mine at the IRS. * DR. WILLIAM A. WALLACE   + Yamada Corporation Professor   + 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](mailto:wallaw@rpi.edu)   + Al has been my teacher, mentor, patron, colleague, and friend. |