TODD GRABOWSKY

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A data science leader and technologist specializing in generative AI and machine learning. Focused on making AI outputs reliable and useful through rigorous evaluation and testing. Proven leadership in managing multidisciplinary teams and overseeing the design and implementation of complex AI systems. Hands-on builder of AI solutions from prototype through production deployment.

EXPERTISE

AI agents | Retrieval Augmented Generation (RAG) | Context engineering | AI Evaluation | R/Python programming | Data wrangling | Data visualization | Predictive modeling | R/Python Shiny web apps | Managing data science teams | Stakeholder engagement | Microsoft Azure cloud

TECHNICAL SKILLS

R | Python | SQL | Git/GitHub | Microsoft Office (Word, Excel, PowerPoint), VBA | HTML | CSS | Javascript | Neo4j | Tableau | Power BI | Microsoft Azure

PROFESSIONAL EXPERIENCE

MANAGING DIRECTOR | DLA Piper — Mar 2023 – Present

- Manages a team of 12 software engineers and data scientists to design and build a legal AI platform for transforming legal files into validated, structured facts and generating legal insights from those extracted facts.
- Supported delivery of legal risk red teaming services alongside attorneys in the AI & Data Analytics Practice Group. Co-developed and implemented a patented methodology for automating legal risk red teaming for multiple six-figure engagements for Fortune 10 clients.
- Created early prototypes for extracting market term data from limited partnership agreements (LPAs) into a data product for DLA's world-leading investment funds practice. Supported the production deployment of this data product along with a related AI system to automate the creation of the attorneys' LPA work product which uses AI agents to answer over 200 nuanced legal questions about a given LPA.
- Built a system for collecting complaint files from a third party API service to support a six-figure engagement with one of the world's largest pharmaceutical companies.
- Helped shape and inform DLA Piper's AI strategy and represented the AI Innovation team on the firms AI Work Group.

DATA SCIENTIST, MANAGER | Faegre, Drinker, Biddle & Reath (Tritura) — Apr 2019 – Mar 2023

- Co-led design and implementation of a contract analytics platform for supporting due diligence for transactions. The platform performed intelligent document processing on deal documents and used AI to extract and store relevant information in a knowledge graph. The platform also used AI to classify clauses within contracts to accelerate due diligence activities.
- Managed a team of data scientists to develop and deploy AI products and services in support of customers within the law firm.
- Worked with clients to solve data-related problems including wrangling data from spreadsheets, extracting structured data from unstructured text sources, transcribing audio files into text, building applications to automate and streamline legal processes, and performing statistical analyses to identify issues related to algorithmic bias.
- Built tooling and facilitated best practices to promote internal process improvements for the Data Science team.
- Maintained and acted as administrator for data science infrastructure in Microsoft Azure, including the team's Posit Connect and Posit Workbench infrastructure.

DATA SCIENTIST | Elder Research, Inc. — Feb 2014 – Apr 2019

- Managed a team of data scientists and software engineers for a classified, multi-million dollar project with the National Geospatial Intelligence Agency. Coordinated with customers to define and solve business challenges using structured and unstructured data. Managed team using agile methodologies.
- Developed and maintained R and SQL database infrastructure for data science team, including creating and managing a local CRAN mirror for R packages in an air-gapped environment, and installing, configuring, and managing air-gapped RStudio Server and Shiny Server instances).
- Developed repeatable, automated processes for parsing XML and HTML documents at scale and extracting structured data into a SQL database.
- Developed and maintained 11 R Shiny web applications used by a team of more than 20 analysts on a daily basis.
- Implemented and deployed novel anomaly detection algorithms to help surface anomalous events for analysts.

SYSTEMS ENGINEER | The SI Organization, Inc. Jul 2011 – Feb 2014

- Provided systems integration support for multi-year, multi-million dollar Research and Development (R&D) activities for a classified project in the US intelligence community.
- Provided project management support, working directly with customers, internal subject matter experts, and development contractors to ensure R&D projects completed on time, within scope, and within budget.
- Developed architecture, concept of operations (CONOPS), and requirements documentation and provided subject matter expertise to assist with oversight of R&D activities.
- Provided acquisition support to customers, drafting statements of work and reviewing proposals from development contractors.

CONSULTANT | Touchstone Consulting Group Mar 2008 – Jul 2011

- Supported the Federal Emergency Management Agency's (FEMA) Homeland Security Presidential Directive 12 (HSPD-12) implementation, a $5 million initiative impacting all of FEMA's 20,000+ personnel.
- Created and managed project plans and project schedules, wrote standard operating procedures, drafted policy documents, managed logistics, and facilitated communications with key stakeholders across organizations to manage FEMA's HSPD-12 deployment.
- Built tools to track and manage the HSPD-12 deployment.

SYSTEMS ENGINEER | Systems Planning and Analysis, Inc. Sep 2007 – Mar 2008

- Worked with a team of software testers to test a large-scale, classified DoD software development project.
- Designed test cases to verify system requirements.
- Wrote Python scripts to run test cases against the system.
- Met with subject matter experts to clarify system requirements and refine test cases, and collaborated with other project staff to solve problems and complete work assignments.

EDUCATION

BACHELOR OF SCIENCE | Systems Engineering | University of Virginia 2003 – 2007

PATENTS

Inventors: Blair, B., Carr, A., Tobey, D., Grabowsky, T., & Rakova, B. (2025). SYSTEMS AND METHODS FOR ARTIFICIAL INTELLIGENCE RED TEAMING. International (PCT) Patent Application No. PCT/US2025/014766, filed February 6, 2025. Patent Pending. Developed a method for automating legal risk red teaming of generative AI-based systems.