

MATTHEW L BROWN

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PROFILE

Data Scientist / Management Consultant with five years of professional experience in analytical application development, statistical programming, business analysis and project management

PROFESSIONAL EXPERIENCE

RED OAK STRATEGIC

Washington, D.C.

Data Scientist

April 2017-

Present

- Led a team of three in developing custom analytical and visualization applications using R Shiny, from wire-framing, data modeling and collecting product requirements to building the completed application
- Developed analytical dashboards to track customer activity on the client's online platform
- Developed predictive models on large datasets using machine learning techniques such as gradient boosting, feature engineering and ensemble methods to inform client decision-making
- Wrote SQL and R statements to manipulate data using joins, grouping, aggregation, nested subqueries, etc.
- Performed exploratory data analysis, developed stochastic simulations and created ad-hoc reports

BOOZ ALLEN HAMILTON

Washington, D.C.

Senior Consultant

June 2015- April

2017

- Implemented change management strategies to maximize adoption of agile software development best practices as a Project Manager on a congressionally mandated multi-million dollar project
- Led requirements gathering and daily standup meetings as Scrum Master for an agile software development project to upgrade a Federal website that has over 10,000 webpages and receives 100+ million hits per year
- Received 'High Five Award' for work on an analytical dashboard for a Federal client
- Competitively selected into 'Tech Tank' an intensive year-long program data science program at Booz Allen

PRAXIS LIFE SCIENCES

Lake

Forest, IL

Consultant (Internship)

May 2014 -

Aug. 2014

- Developed content and wrote sections of corporate policy for a pharmaceutical company
- Audited policy documents to ensure that they addressed all necessary regulations

JOHN DEERE

Waterloo, IA

Geometric Coordinator

Nov.

2011-Aug. 2013

- Led a team which performed quality checks on CAD models
 - Developed a quality tracking system which resulted in a 25% improvement in first-pass yield
 - Led training sessions for groups of product designers from around the world
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TECHNICAL SKILLS

Statistical Methods: predictive modeling, clustering, optimization, stochastic simulation, functional programming

Software and Programming Languages: R, Shiny, SQL, Tableau, Matlab, Python

Coursework / Certifications: *Tableau Certified Associate, Introduction to R for Data Science, The Analytics Edge, Explore Data Science, Advanced Analytics, Statistical Methods of Process Improvement, Differential Equations*

EDUCATION

HENRY B. TIPPIE SCHOOL OF MANAGEMENT, UNIVERSITY OF IOWA
Iowa City, IA
Master of Business Administration, Supply Chain and Analytics
May 2015

UNIVERSITY OF IOWA
City, IA
BSE Biomedical Engineering
2011

Iowa

May

OTHER EXPERIENCE

- Developed application to predict player performance and build optimal lineups for daily fantasy sports