

MATTHEW L BROWN

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SUMMARY

Six years of professional experience in software development, data science, management consulting and project management.

PROFESSIONAL EXPERIENCE

RED OAK STRATEGIC

Data Scientist / Full-Stack Software Developer

Washington, D.C.

April 2017- Present

Consultant software developer and data scientist for a financial services startup which provided risk management solutions for large corporate clients.

- Led development of portions of an online platform, from collecting product requirements and data modeling to building the production applications using the Microsoft .NET framework
- Led a team of three in developing custom analytical and visualization applications using R Shiny
- Developed tools and visualizations to help customers understand and utilize the product offering of the client
- Designed and built company and user administration sections of the online platform
- 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
- Performed exploratory data analysis and created ad-hoc reports

BOOZ ALLEN HAMILTON

Senior Consultant

Washington, D.C.

June 2015- April 2017

Management consultant focused on implementing large scale technology projects for Federal clients

- 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

Consultant

Lake Forest, IL

May 2014 - Aug. 2014

Internship

- Audited policy documents to ensure that they addressed all necessary regulations

JOHN DEERE

Geometric Coordinator

Waterloo, IA

Nov. 2011-Aug. 2013

Quality analyst for design engineering division

- 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, object-oriented programming

Software and Programming Languages: c#, .NET, JavaScript, SQL (SQL Server, Postgres), HTML, CSS, R, R Shiny, Python, Tableau, Highcharts, Leaflet, Plotly

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
Master of Business Administration, Supply Chain and Analytics

Iowa City, IA

May 2015

UNIVERSITY OF IOWA
BSE Biomedical Engineering

Iowa City, IA

May 2011

OTHER EXPERIENCE

- Developed application to predict player performance and build optimal lineups for daily fantasy sports
- Taught GED mathematics and computer courses for adult learners