

# Christopher Sharpe

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## Objective

A data analysis position that uses my Information Management background and degree to create business solutions.

## Work Experience

### **Business Analyst/Cognitive Engineer – Sharpe Engineering Inc.      Dec. 2011 – Present**

Assist in numerous aspects of solution development including, but not limited to, use case analysis, requirements gathering, solution design, application development, testing, and deployment.

#### **Data Science - Jupyter Notebooks**

- Created numerous notebook-based applications to automate a process flow for the analysis and visualization of large volumes of time-series data.
- Developed a notebook allowing doctors to find biomarkers indicating which patients would develop post traumatic epilepsy in a vast amount of medical data.
- Utilized a combination of Python code and machine learning packages to perform data preparation, analytical processing, and interactive visualization of time series data.
- Leveraged a variety of open-source libraries to create both 2D and 3D visualizations of large volumes of data hosted in MongoDB.
- Conducted functional and nonfunctional testing to identify potential application enhancements.
- Implemented application changes to improve performance and capability.

#### **Web Based Health Care Application - Django**

- Created a Django web application to give the client an easy way to search a database of medical patients and display the information in a simple but powerful format.
- Incorporated various graphs, tables, text boxes, search engines, and database functionality.
- Added a login system to ensure privacy.

#### **Cognitive Learning - IBM Watson**

- Cognitive Engineer for a pilot project for Providence Healthcare. Responsible for all Watson QA related implementation work.
- Knowledgeable with all aspects of Watson Experience Manager. Responsibilities included cleansing, uploading, and managing documents in a Watson QA corpus.
- Collaborated with clients to design, write, train, and test several thousand questions to curate a Watson QA corpus.
- Worked with IBM Staff on a series of workshops to understand the capabilities of Watson Discovery Advisor and demonstrate the potential value to Providence Healthcare as part of a Value Based Medicine/ACO decision management system.
- Helped evaluate the use of Watson Analytics for a custom healthcare visualization solution.
- Attended several IBM sponsored Watson QA workshops and informational events.

#### **MongoDB**

- Successfully completed the MongoDB University training program for DBAs.
- Completed an internship at CenterPoint Energy assisting an evaluation of MongoDB. The project included tasks relating to installation, query construction, and performance testing.

## Other Skills

**Datawatch Designer** – Helped design and integrate a visual exploration tool for EEG analysis

**MATLAB** - Developed MATLAB applications for fractal generation and numerical analysis

**IBM InfoSphere Streams** – Hands on experience creating real-time data-in-motion solutions

**Apache Spark** – Using Apache Spark to clean and analyze medical telemetry data

## Education

Bachelor's Degree in Business Administration with a specialization in Information Management

University of Colorado – Boulder, Leeds School of Business