

## PROFESSIONAL EXPERIENCE

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### Compu-House

Cincinnati, OH  
February 2019 – Present

#### *Chief Data Scientist/Researcher*

- Studying ensemble classification to predict the occurrence of medical issues with Python and R utilizing Random Forest, Ada Boost, and XtraTrees Classifier.
- Directing and managing a team of Data Scientists and researchers to create prediction models using Python and R:
  - Worked on stock market prediction models using Neural Networks.
  - Used ARIMA models to do Stock Market Forecasting Time-Series Analysis.
  - Created Bayesian Networks Property and Casualty Fraud detection models.

#### *Data Analyst/Data Scientist @ CoStrategix*

- Analyzing clients' current core businesses workflows and implementing machine learning and predictive analytics solutions to enhance productivity and efficiency:
  - Cleaned data sources, built Snowflake data warehouse, and created Power BI dashboards showing historical, current, and predicted sales for a shooting range client.
  - Analyzed, combined data sources, built a Snowflake data warehouse, and created prediction data models for an advertisement company.

#### *Software Developer/Influencer @ Trustaff*

- Worked on nurse recruiting, cardiologist placement, and commission calculations .net core applications.
- Modernized, structured, and standardized the IT department, and introduced data science and analytics into the workflow.

#### *Lead Software Developer @ SigmaTEK Systems*

- Worked on CAD/CAM nesting and automation software solutions using Delphi.

#### *Team Lead @ Anthem Blue Cross and Blue Shield*

- Led the development of an enterprise claims application in ASP .NET and SQL Server.

### Compu-House

Cincinnati, OH

#### *Data Science/Machine Learning Researcher*

January 2013 – January 2019

- Researched and improved the prediction accuracy of Septic Shock by 12% using Python and R (combined Cox Regression model with Random Forest).
- Improved the lead time to predict Septic Shock from 4 hours to 20 hours.

### Cincinnati Insurance Companies

Cincinnati, OH

#### *Software Developer*

July 2012 – January 2019

- Developed, supported, and improved Commercial and Personnel Insurance Rating Applications using C#.
- Managed multiple requests to develop different lines of businesses in parallel.
- Eliminated redundant tasks, and automated manual processes.
- Collected information from business users and transformed them into accurate technical requirements.

- Wrote code using the requirements that accurately reflected the regulations and business needs and that conformed with the highest OOP standards.
- Updated technical documents and tutorials with the new changes.
- Performed code reviews for work done by other developers.

## **Compu-House**

### ***IT Director/Software Developer***

Cincinnati, OH

March 2010 – June 2012

- Managed and worked on a windows-based call center application for Macys using C# .NET and web services.
- Directed a team of developers and engineers to design and program an inventory-tracking device for P&G Pet Care. The device grabs the items' information through RFID technology in addition to the weight through a connected scale and streams the data to a SQL Server database. The project involved writing a mini-OS and mini-C# compiler for the device utilizing the C language.
- Managed and participated in the development of a risk assessment ASP .NET Application with C# and SQL Server for Axa-Matrix.
- Studied complex business rules to modify and enhance ASP .NET web services for a municipal court electronic filing system.
- Managed and led an offshore team to build web applications, and business solutions using C #, ASP .NET, MS-SQL Server, PHP, and MySQL.
- Supported and enhanced a healthcare analytical product for Thomson Reuters built in C#, ASP .NET, MySQL, PHP, and Stata. Responsibilities included collecting requirements, developing part of the requirements, and delegating other parts to an offsite development team, and fixing analytical and programming defects.
- Developed Windows and Web based applications, and e-commerce sites for small businesses using C#, ASP .NET, MS-SQL Server, PHP, and MySQL.
- Created a web-based ASP .NET application to manage the payroll and commission payments for a multi-carrier insurance agency.

## **Sogeti**

### ***Senior Consultant***

Cincinnati, OH

May 2008 – February 2010

### **Assigned to P&G**

- Built various business intelligence, statistical, and web applications for different entities at P&G using C#, VB .NET, ASP .NET, MS-Access, and Oracle.
- Developed a Financial Scoring Tool in MS-Access and enhanced a web-based Desktop Support Tool for Great American Life Insurance.

## **Compuware**

### ***Consultant***

Cincinnati, OH

August 2006 – April 2008

- Developed, supported, and enhanced various manufacturing applications for P&G Pet Care utilizing C#, MS-Access, and Oracle.
- Enhanced and modified VB, VB .NET, C#, and C++ applications for First Data.