Brandon Harden

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*** https://github.com/B-Harden/Portfolio ***

Education:

Masters of Science in Data Science — **January '17 - May '18**
Lipscomb University (LU)

Bachelor of Science in Economics — **August '10 - December '14**
The University of Tennessee at Chattanooga (UTC)

Experience:

Corporate Intern — **September '18 - *Present***
Healthcare Corporation of America - HCA (Franklin, TN)

- I report directly to the Director of IT&S Product Development Corporate Systems. I accompany the Director during corporate meetings and interviews in order to gain experience at managing an IT team and IT projects.
- I assist HCA's Enterprise Resource Planning (ERP) Development Team implement data analysis into both their products and reporting.

Office Manager — **February '17 – September '18**
Direct Access Coordination (Brentwood, TN)

- Personal Assistant to company owner.
- I facilitated in the daily management of business records and office personnel.

City Council Intern — **January '16 – December '16**
Nashville City Council – District 29 Councilwoman Karen Johnson (Nashville, TN)

- Personal assistant to District 29 Councilwoman Karen Johnson.
- I assisted in various projects that aimed at advocating, engaging, and motivating local constituents in getting more involved with their community.

Data Manager — **March '15 - January '17**
Care Management Consultants, Inc. (Brentwood, TN)

- Processed, organized and maintained data through physical and digital storage.
- Involved in Life Care Planning through critiquing and consolidation of patient data needed for reporting.

Treasurer, Student Government Association (SGA) — **August '13 - May '14**
The University of Tennessee at Chattanooga (Chattanooga, TN)

- Managed approximately $100,000.00.
- Managed ledger accounts, tracked expenses, and created budgets for Student Government Association.

Certificates:

- **Google Cloud Platform Big Data and Machine Learning Fundamentals** by Google Cloud on Coursera. Certificate earned at Thursday, May 17, 2018 7:37 PM GMT
- **Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization** by deeplearning.ai on Coursera. Certificate earned at Thursday, April 5, 2018 7:58 PM GMT
- **Neural Networks and Deep Learning** by deeplearning.ai on Coursera. Certificate earned on Tuesday, October 24, 2017 4:21 PM GMT
- **Programming for Everybody (Getting Started with Python)** by University of Michigan on Coursera. Certificate earned on Tuesday, November 22, 2016 12:35 AM GMT

Projects (*Please refer to GitHub):

- **Neural Networks (Tensorflow)**
  - Using Tensorflow I created a *neural network* model that could predict hand written digits from the MNIST dataset.
- **Reinforcement Learning (Open.ai Gym)**
  - Using Open.ai Gym I built a *reinforcement learning* model that could solve the classic cart-pole control problem.
- **Machine Learning (Classification)**
  - Created and compared multiple classification prediction models in Scikit Learn that could predict, using medical data, which patients had diabetes and which did not. (Models: kNN, SVM, Decision Tree Classifier)
- **Machine Learning (Regression)**
  - Created and compared multiple regression prediction models in Scikit Learn that could predict the *energy output* from a *Combined Cycle Power Plant* (Models: Linear Regression, Ridge Regression, Lasso Regression, Polynomial Regression)
- **Natural Language Processing**
  - Analyzed 2016 US Presidential campaign debate speeches for the amount of 'negative words' they contained and the effect this had on their polls throughout the campaign trail.
- **Computer Vision**
  - Used OpenCV to perform multiple image transformations on digital input.
- **Google Cloud Products (Recommendation System)**
  - Using virtual machines within Google Cloud Products I created a *recommendation system* that suggested to potential travelers lodging accommodations based off previous searches and ratings/ reviews.
- **Google Cloud Products (Forecasting)**
  - Created machine learning models that could predict the demand for New York taxi cabs based off day-of-the-week and weather data, etc.

Technical Skills:

- Proficient in programming in SQL, R, and Python.
- Experienced in using Scikit Learn and Tensorflow.
- Proficient in creating and analyzing Machine Learning models.
- Proficient in using R Services in Microsoft Visual Studio.
- Experienced in using Microsoft Azure, Amazon Web Services (AWS) and Google Cloud Products (GCP).
- Experienced in creating Deep Neural Networks.
- Experienced in live broadcasting (video camera and network configuration), as well as hosting events.
- Competent in Bookkeeping and creating budgets.
- Great communication skills, team cooperation, time management, as well as possessing the ability to adapt quickly.
- Can speak basic conversational Japanese.

Highlighted Coursework:

- Statistical Analysis and Decision Modeling
- Information Structures
- Big Data Management and Analysis
- Data Mining and Analysis
- Introduction to Econometrics
- Economic Development
- Game Theory

Activities and Honors:

- ***Research Presenter*** - Lipscomb University Student Scholars Symposium, 2018
  - Presented my personal research titled "A Review of Virtual Reality for the Training of Robotics Control Policies".
  - My research reviews the application of using human demonstrations in VR to train control policies for physical robots.
- ***Project Leader*** - Hands on Nashville Day, 2015, 2016, 2017, & 2018
  - Most recently in 2018 I led a group of over 100 volunteers with completing beautification projects at John F. Kennedy Middle School in collaboration with Hands of Nashville.
- ***Best Lobbyist Award*** - Tennessee Intercollegiate State Legislature, 2013
  - Received the 'Best Lobbyist Award' for my skill at lobbying legislation and pursuing committee members at TISL.
- ***Representative in the House of Representatives*** - Tennessee Intercollegiate State Legislature, 2012
  - Created my own Legislative Bill which I presented and passed through the House of Representatives.
- ***Director of Education*** - Alpha Phi Alpha Fraternity Inc., August 2013- December 2014
  - Collaborated with city organizations on organizing engaging events for fraternity and university students.
- ***Chairman*** - Student Government Association District II College of Business, January 2013- May 2013
  - Advocated for the College of Business students' desires and concerns within the department.
  - Collaborated with the Dean of the College of Business in creating and hosting open forums for students.
- ***Treasurer*** - National Pan-Hellenic Council, August 2012- May 2013
- ***Assistant Area Director*** - Alpha Phi Alpha Fraternity Inc., August 2011- May 2012
  - Created retreats and networking events for the fraternity's TN undergraduate chapters.