**EDUCATION**

**Lipscomb University**, Nashville, TN **May 2018**

Masters of Science in Data Science

**University of Tennessee**, Chattanooga, TN

Bachelor of Science in Economics  **December 2014**

**WORK EXPERIENCE**

**HCA Healthcare**, Nashville, TN **August 2018 – May 2020**

***Process Improvement Engineer/ BA (Feb 2019-May 2020)* *(Position Impacted by COVID)***

* Certified Six Sigma Green Belt
* Automation Developer on Robotics Process Automation (RPA) Proof of Concept project.
* Automated the workflow of granting Physicians application access needed to treat patients.
* Became a certified RPA Developer during employment.
* Involved in process improvement projects such as Software Licensing Optimization and Lawson Data Security.
* Licensing optimization efforts resulted in a pool of licensing keys worth over a million dollars in savings.
* Daily workflow involved working with numerous Business Units to create process maps of current state workflows and retrieving/ analyzing data with the identification of KPIs*.* Assisted BU’s in implementing future state process and control plans.

***Software Developer Intern (August 2018 – February 2019)***

* Direct report to Director of IT&S Product Development Corporate Systems and received IT Management mentorship.
* Assisted HCA’s ERP Development Team implement data analysis into both their products and reporting using technologies such as SQL Server, SSRS, Power BI, Python and R.

**Direct Access Coordination**, Brentwood, TN **January 2017-August 2018**

***Office Manager***

* Served as Personal Assistant to company owner.
* Facilitated in the daily management of business records and office personnel.

**Davidson County Metro Council – District 29**, Nashville, TN **January-December 2016**

***Metro Council Intern***

* Served as Personal Assistant to and mentored by District 29 Councilwoman Karen Johnson.
* Attended both Council and Committee meetings with Councilwoman Johnson.
* Assisted in various projects that aimed at advocating, engaging, and motivating local constituents into getting more involved with their community.

**Care Management Consultants, Inc.**, Brentwood, TN  **January 2015-January 2017**

***Data Manager***

* 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.

**University of Tennessee**, Chattanooga, TN **August 2013-April 2014**

***Student Body Treasurer, Student Government Association (SGA)***

* Managed approximately $100,000.00 on behalf of Student Government Association.
* Managed ledger accounts, tracked expenses, and created budgets for Student Government Association.

**CERTIFICATIONS**

* **RPA Developer Advanced** by UiPath- 643183669487356432 (Dec 2019)
* **Six Sigma Green Belt** by HCA Healthcare & Belmont Univ. Jack Massey Grad. School of Business- #0403. (Oct 2019)
* **Google Cloud Platform Big Data and Machine Learning Fundamentals** by Google Cloud on Coursera (May 2018)

**Brandon Harden Page 2**

* **Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization** by deeplearning.ai on Coursera (April 2018)
* **Neural Networks and Deep Learning** by deeplearning.ai on Coursera. (Oct 2017)
* **Programming for Everybody (Getting Started with Python)** by University of Michigan on Coursera (Nov 2016)

**PROJECTS (\*Please refer to GitHub):**

* **Robotic Process Automation (RPA)** 
  + Trained and certified as a RPA Developer.
  + Automated the workflow of granting employees application access via eSAF requests.
* **Lawson Security Access**
* Analyzed Lawson Security Team’s data to discover variances in user and table data access.
  + - Developed and proposed more efficient method of granting/ eliminating access and security management.
* **Machine Learning (Classification & Regression)**
  + - 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)
    - 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)
* **Computer Vision**
  + - Used OpenCV to perform multiple image transformations on digital input.
* **Google Cloud Products (Recommendation System)**
  + - Using virtual machines within Google Cloud Products 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**

* Certified UiPath *Robotics Process Automation* (RPA) Engineer
* Certified Lean Six Sigma Green Belt
* Proficient in programming in Python, R, and SQL.
* Proficient in creating and analyzing Machine Learning models.
* Capable of developing Full Stack Apps using Python, Flask/ Django, and JavaScript.
* 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.
* Can understand and speak a little Japanese.

**ACTIVITIES AND HONORS**

* ***Research Presenter*** - Lipscomb University Student Scholars Symposium, 2018
* Presented personal research titled “A Review of Virtual Reality for the Training of Robotics Control Policies”.
  + - Presented research reviewing the application of using human demonstrations in virtual reality to train control policies for physical robots.
* ***Project Leade*r** - Hands on Nashville Day, 2015, 2016, 2017, & 2018
  + - Most recently in 2018 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 skills at lobbying legislation and persuading committee members.
* ***Representative in the House of Representatives*** - Tennessee Intercollegiate State Legislature, 2012
  + - Created and presented a Legislative Bill which passed through the House of Representatives.