

# Brandon Harden

b.harden92@gmail.com 615-925-9090

\*\*\* <https://b-harden.github.io/Portfolio-Website/> \*\*\*

## EDUCATION

**Lipscomb University**, Nashville, TN  
Masters of Science in Data Science

May 2018

**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)

- **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 Leader** - 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.