

# Brandon Harden

bharden@mail.lipscomb.edu

(615)925-9090

\*\*\* <https://github.com/B-Harden/Portfolio> \*\*\*

Education:	<b>Masters of Science in Data Science</b> <i>Lipscomb University (LU)</i>	January '17 - May '18
	<b>Bachelor of Science in Economics</b> <i>The University of Tennessee at Chattanooga (UTC)</i>	August '10 - December '14
Experience:	<b>Office Manager</b> <i>Direct Access Coordination (Brentwood, TN)</i> <ul style="list-style-type: none"><li>• Personal Assistant to company owner.</li><li>• Facilitate in the daily management of business records and office personnel</li></ul>	February '17 - Present
	<b>Founder</b> <i>Live Experiences International™ (Informal Business)</i> <ul style="list-style-type: none"><li>• Live broadcasting of local and regional events.</li><li>• Created and produced a live, online, educational show.</li></ul>	January '16 - Present
	<b>Intern</b> <i>Nashville City Council – District 29 Councilwoman Karen Johnson (Nashville, TN)</i> <ul style="list-style-type: none"><li>• Personal assistant to District 29 Councilwoman Karen Johnson.</li><li>• I assisted in various projects that aimed at advocating, engaging, and motivating the local community.</li></ul>	January '16 – December '16
	<b>Data Manager</b> <i>Care Management Consultants, Inc. (Brentwood, TN)</i> <ul style="list-style-type: none"><li>• Processed, organized and maintained data through physical and digital storage.</li><li>• Involved in Life Care Planning through critiquing and consolidation of information and data.</li></ul>	March '15 - January '17
	<b>Treasurer, Student Government Association (SGA)</b> <i>The University of Tennessee at Chattanooga (Chattanooga, TN)</i> <ul style="list-style-type: none"><li>• Managed approximately \$100,000.00.</li><li>• Worked with ledger accounts and tracked expenses, and created budgets for Student Government Association.</li></ul>	August '13 - May '14
Certificates:	<ul style="list-style-type: none"><li>• <i>Google Cloud Platform Big Data and Machine Learning Fundamentals</i> by Google Cloud on Coursera. Certificate earned at Thursday, May 17, 2018 7:37 PM GMT</li><li>• <i>Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization</i> by deeplearning.ai on Coursera. Certificate earned at Thursday, April 5, 2018 7:58 PM GMT</li><li>• <i>Neural Networks and Deep Learning</i> by deeplearning.ai on Coursera. Certificate earned on Tuesday, October 24, 2017 4:21 PM GMT</li><li>• <i>Programming for Everybody (Getting Started with Python)</i> by University of Michigan on Coursera. Certificate earned on Tuesday, November 22, 2016 12:35 AM GMT</li></ul>	
Projects (*Please refer to GitHub):	<ul style="list-style-type: none"><li>• Neural Networks (Tensorflow)<ul style="list-style-type: none"><li>◦ Using Tensorflow I created a <i>neural network</i> model that could predict hand written digits from the MNIST dataset.</li></ul></li><li>• Reinforcement Learning (Open.ai Gym)<ul style="list-style-type: none"><li>◦ Using Open.ai Gym I built a <i>reinforcement learning</i> model that could solve the classic cart-pole control problem.</li></ul></li><li>• Machine Learning (Classification)<ul style="list-style-type: none"><li>◦ Created and compared multiple classification prediction models in Scikit Learn that could predict which patients had diabetes and which did not. (Models: kNN, SVM, Decision Tree Classifier)</li></ul></li><li>• Machine Learning (Regression)<ul style="list-style-type: none"><li>◦ Created and compared multiple regression prediction models in Scikit Learn that could predict the <i>energy output</i> from a <i>Combined Cycle Power Plant</i> (Models: Linear Regression, Ridge Regression, Lasso Regression, Polynomial Regression)</li></ul></li><li>• Natural Language Processing<ul style="list-style-type: none"><li>◦ 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.</li></ul></li><li>• Computer Vision<ul style="list-style-type: none"><li>◦ Used OpenCV to perform multiple image transformations on digital input.</li></ul></li><li>• Google Cloud Products (Recommendation System)<ul style="list-style-type: none"><li>◦ Using virtual machines within Google Cloud Products I created a <i>recommendation system</i> that suggested to potential travelers lodging accommodations based off previous searches and ratings/ reviews.</li></ul></li><li>• Google Cloud Products (Forecasting)<ul style="list-style-type: none"><li>◦ Created machine learning models that could predict the demand for New York taxi cabs.</li></ul></li></ul>	
Technical Skills:	<ul style="list-style-type: none"><li>• Experienced in using Scikit Learn and Tensorflow.</li><li>• Proficient in creating and analyzing Machine Learning models.</li><li>• Proficient in using R Statistical Software and programming in Python.</li><li>• Experienced in creating Deep Neural Networks.</li><li>• Experienced in using Amazon Web Services (AWS) and Google Cloud Products (GCP).</li></ul>	

- Experienced in live broadcasting (video camera and network configuration), as well as hosting events.
- Competent in using ledger accounts 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

#### Activities and Honors:

- *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
  - Led a group of 50 volunteers with a city wide Public School beautification project 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.