Lei Cao

lcao4@toromail.csudh.edu cell (310) 593-1930 Carson, CA 90746

LinkedIn: https://www.linkedin.com/in/lei-c/ Github: https://github.com/leicao-me Projects: http://www.leicao.me/ **Highlights:** (This CV has Two pages) • (GPA 4.00) MS Computer Science, CSU, Dominguez Hills • 5 years as a Software Engineer, Data Science Intern, AI Intern Data Analyst Nanodegree from Udacity.com • Mastering Data Science Applied Lab, TheDevMasters • Experience in Internet Startup projects **Experience** • Create NLP class content with AI Bootcamp teacher • Create a Chatbot using TensorFlow with word2vec Assist to setup a MongoDB server Data Science Applied Lab at the DevMasters Oct 2017 – Present Project Based Learning · Recommendation Systems • Natural Language Processing and Sentiment Analysis • Wrote algorithm, utilized Twitter API, search an topic • From scratch, analyzed tweets content into positive and negative sentiment • Big Data with Spark and Splunk • Deep Learning and Time Series • Computer Vision with OpenCV • Used webcam to create a real-time facial&object recognition program · Created a web scraper on a Django platform. • Blockchain Technology, Aritificial Neural Nets Data Science Intern at Yanset Career Success Platform (http://yanset.com/) Oct 2017 - Present Selenium + PvUnit End-to-end testing. · Using Python Unittest frameworks and Selenium API • Coding test cases to simulate user's actions on the company's website • Web Scraping(Beautiful Soup) and Data Analysis • Project: Big Data Analytics and Visualization of California Transportation • Presented in HENAAC '17 Conference • Built a model to predict road accident trend given economic data • Built Apache Spark and Hadoop cluster from scratch in Chameleon Cloud • Learned: I. How to find valuable insights into large datasets, in this case, a correlation II. How to use Spark to perform big data analysis Software Engineer at Meron English Edu. Science & Technology Co., Ltd. Jun 2012 - Nov 2016 Project1: School Database Software System Development - Financial and Administrative System • VBA, Microsoft Access Database, SQL (3000 + lines of code, 100+ features) • Provide data science insight to assist advertising and recurring billing cycles • The software system handles 500 enrolled students per semester, 5000 overall. Project2: Virtual Reality iOS App
 Nov 2015 - Mar 2016 • Immersive English Learning Experience using Panoramic Video • Software: Unity3D + Google Cardboard SDK + Cardboard goggles. Hardware: Ricoh Panoramic Camera **Skill Sets** Data Science – Pandas, Numpy, Matplotlib, Tableau, Seaborn, Machine Learning, Deep Learning, Selenium, PyUnit Machine Learning – Natural Language Processing, Recommendation System, Image Classification Big Data Analytics – Spark Deployment, Hadoop cluster Deployment, Distributed Computing, MapReduce Algorithm

Artificial Intelligence – Deep Learning, Convolutional Neural Network, TensorFlow, Softmax Regression, Machine Learning

Programming Languages – Python, Java, SQL, VBA, C++, Linux, CSS, HTML, JavaScript, Scheme, Prolog, R
 Misc. – AWS Cloud Deployment, Chameleon Cloud, Jupyter Notebook, Microsoft Access Database, MongoDB

• Virtual Reality – C#, Unity3D, Google Cardboard VR video player development

(Projects on the Next Page)

Projects

Loan Status Prediction	Jan 2018
• Used given bank customer info on loans to predict if a new customer is likely to fully pay the loan.	
Used multiple machine learning algorithms	
Titanic Passenger Survival Prediction	Jan 2018
 Kaggle Competition Leaderboard Top 5% 	
 Machine Learning: Gradient Boost Classifier, 887 features, 	
House Price Prediction in King County	Jan 2018
• Machine Learning – Linear Regression,	
Feature Engineering	
FBI Gun Purchase Background Check Data Analysis	Dec 2017
Found a seasonal pattern for gun shopping	
 Found the most related variable of US census data to FBI Gun data 	
Image Classification - MNIST Handwritten Digits.	Nov 2017 - Present
• (Accuracy 99.2%) Built A Convolutional Neural Networks in TensorFlow.	
Hadoop Cluster in Chameleon Cloud	Mar 2017 - Jun 2017
 MapReduce algorithm to compute and analyze a multi-year H1B visa petitions dataset. 	
 Visualization in Jupyter Notebook by Python Pandas and Matplotlib 	
 Learned: I. How to set up a Hadoop cluster in a Cloud environment from scratch. II. MapReduce algorithm, Visualization 	
II. MapReduce algorithm, Visualization	PA 4.0/4.0 Expect Grad. Dec 2018
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