

HAIZHOU LI

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EDUCATION

Boston University <i>MA in Computer Science In progress</i>	2021.8 – Present
Virginia Polytechnic Institute and State University <i>BA in Economics (EACS) Major GPA: 3.5/4.0</i>	2017.8 – 2020.12

HONOR

Being named to the College of Science 2020 Fall Dean's List.

TECHNICAL SKILLS

Programming:	Python, Java, Rstudio, Sql, STATA.
Software & Tools:	JupyterNotebook, Eclipse, PyCharm, IntelliJ, STATA, MS Office
Other Skills & Languages:	Data Structure, Software Development Engineering, Machine Learning, Data Visualization, Data Mining, Algorithms, LaTeX, Chinese (native), English (fluent).

WORK/INTER EXPERIENCE

China Tower Xi'an Branch (Available in GitHub) Application Develop Engineer, Data Analytic group leader	2021.2 – 2021.7
- At the beginning, I developed a series Python code on checking whether the electricity cost is or not reasonable, such as looking for the abnormal electricity cost from the specific base station. - Helped operation and maintenance departments to formulate a strategy on local tower station. - Generated an .Exe document to help auditors on checking the past 3 years rationality of the electricity cost by using Python, the amount of yearly electricity cost of Xi'an City in 2021 is over 20 billion dollars. All the code available on GitHub.	
China Mobile (Shaanxi) Cloud Computing Center Summer 2019 Data Science and After-sale Technical Problem Fix group attendee	

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- Assisted the marketing, sales, and after-sale technical support of cloud systems and DDoS defense systems. - Assisted in the writing after-sale technical support workflow planning, documented workflow manuals Participated in the technical support team in the establishment project of the cloud system setup for the Bureau of Environmental Protection of Xianyang City, Shaanxi Province.	

RESEARCH PROJECTS (ALL AVAILABLE IN GITHUB)

Research Assistant: Deep Learning NLP algorithm (Natural Language Processing).	2020.11 - Presen
Assistant for Doctor Chen Jing (Boston University) Mentor: Dokyun (DK) Lee (Boston University)	
- With Python to do the Deep Learning NLP algorithm, by using a library called Flair, to do the embedding and predictions.	

Machine Learning project: Economic regression analysis on How the properties of applicants affect credit card application result.	2020.8 – 2020.12
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Individual Researcher Mentor: Ali Habibnia (Virginia Tech)	
- With Python, scraped data from Kaggle about the credit card applications data of What factors affect the application result, and do the data cleaning and visualization. - Designed an economic analysis machine learning algorithm for What factors affect application result, and used the collected data to train the algorithm and conducted the analysis.	

Last name categorization in census analysis	2020.8 - 2020.12
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Individual Researcher Mentor: Melinda C. Miller (Virginia Tech)

- By using Python to Categorized and verified last names of Indian indigenous people from the 1900 US census according to the names' language family origin.
- Designed and wrote the algorithm that involves about 833,000,000 calculations and comparisons to conduct the categorization and verification the last name belongs to which nationality, with the help of Python, JupyterNotebook.

Why top 30 universities are top 30? Quantitative analysis on rankings of universities

2019.8 – 2019.12

Team Leader *Mentor: Chris North (Virginia Tech)*

- Cooperated with 3 team members in running the analysis and data visualization and writing the final report.
- With Python, scraped and cleaned data from the USNEWS website and university official websites about more than 20 indicators of the development of universities, including geographical location, urban-rural settings, enrollment, basic salary of graduates, student-teacher ratios, publication per faculty member, etc..
- With Python, conducted regression analyses and data visualization to test whether top 30 universities in USNEWS are really top 30 in America according to various indicators.
- With Python, conducted data visualization to summary performances of the top 30 universities regarding various indicators.