Christopher Ton

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EDUCATION

University of California, Davis Expected Jun 2020
Bachelor of Science, Statistical Data Science Davis, CA

Relevant Courses: Introduction to Natural Language Processing, Statistical Learning, Data Science Practices, Time Series Analysis, Applied Linear Algebra, Web Technologies and Databases, Big Data and Computing, Algorithms and Data Structures

SKILLS

Programming: R (dplyr, tidyr, ggplot), Python (NumPy, Pandas, matplotlib, sci-kit learn), SQL
Frameworks: HTML/CSS, Plotly Dash, R Shiny
Other: Tableau, Git, Markdown, Jupyter, IBM Cloud

WORK EXPERIENCE

UC Davis Computational Communication Lab | Davis, CA Jun 2019 – Sep 2019
Undergraduate Research Assistant

- Analyzed several decades of basketball game scores and identify trends in the evolution of team professionalism and player strategy to aid research with human decision behavior in complex social environments
- Researched data science methodologies to preprocess and manipulate data from web scraping and parsing of HTML code
- Developed debugging skills while exploring and implementing python packages such as NumPy, Pandas, and Matplotlib
- Collaborated with lead researcher to identify project goals and deadlines for remote work, using Git to maintain project files and proper version control

PROJECTS

COVID-19 Tracker | 1st Place @ HooHacks 2020 (Best Data Science Track)

- Deployed a visualization web dashboard to gain better insight on the growing number of global coronavirus cases
- Analyzed data retrieved from RapidAPI calls by wrangling with dplyr and modeling exponential growth in R
- Visualized percentage change, recovery and mortality rates with user-defined bar plots, line plots and heat maps for 170+ countries and 3400+ provinces

AggieForecasting | HackDavis 2020

- Led a team of 4 students to prepare a dashboard presentation for insights on cost-effective and sustainable energy usage for campus buildings with automated time series ARIMA forecasting
- Interpreted auto correlation function plots to identify anomalies with monthly and quarterly consumption and spending

NBA 2k Dash | 2nd Place @ SacHacks 2020 (Basketball Analytics)

- Co-led a team of 4 students to design and develop a web application that explores the current standings of over 125 players, 15 teams and their game statistics to optimize decision making with daily team lineups
- Analyzed and preprocessed multivariate dataset with PandaSQL and Jupyter to embed into Plotly Dash framework for visualization

SectionDetective | Wine Catalog Challenge DataFest 2019

- Implemented a K-means clustering algorithm to detect potential headers and sections of digital wine catalog images and recover their textual information to accelerate library logging purposes
- Used optical character recognition and python to identify pre-labeled text boxes, pixeled coordinates and white spaces

Homelessness Analysis | UC Berkeley Datathon for Social Good 2019 | 3rd Place Winner

- Leveraged regression within IBM Z ecosystem to optimize federal budget allocation for 400+ U.S. counties
- Researched over a dozen municipal sources for data and prepared a presentable report of statistical findings for financial discrepancies to IBM engineers and scientists