

Charlie Tolleson

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(804)456-1221

Permanent Address: 310 Hollyport Rd Richmond, VA 23229

Current Address: 416 Monroe Lane, Unit 1, Charlottesville, VA 22903

Education

School: University of Virginia School of Engineering and Applied Science Class of 2020

Major: Computer Science

Relevant Coursework: Program and Data Representation, Practice of Data Science, Data Analysis with Python, From Data to Knowledge, Software Development Methods, Discrete Math, Digital Logic Design, Math Modeling and Advanced Geometry

Experience

Independent Study | Data Researcher | November 2017 – Present

- I am helping a group of Architecture and Systems Engineering professors and their postdoc with research that they have been conducting using Inova medical data and zipcode level geospatial data
- I am using Python to find statistical significances between greenspace and the wellness of elderly people

Together We Run | Co-Founder | August 2017 – Present

- An organization started by a few friends and I which is staging "runathon" events around the country to raise money for various organizations in response to the August riots in Charlottesville
- I am coordinating all food sales and donations for the events which includes reaching out to local and non-local companies for partnerships
- TogetherWeRun.org

HackCville | Data Science Instructor - The Node | July 2017 – Present

- Design, curate, and create course content for a 10 week class of 15 students
- I teach two 90 minute classes each week with traditional lectures, live coding, hands on activities, and projects
- The course covers the following topics: data manipulation, data visualization, regression/classification, text analytics/topic modeling, web scraping/APIs, machine learning
- HackCville.com/program/the-node

DriveFactor | Data Science Intern | June 2017 – August 2017

- Worked in a team of three to find data insights and create visualizations to incentivize insurance companies to buy data
- Created regression models with features which I engineered to predict the claim costs of 2018 model cars (cars not yet on the market)

HackCville Launch Data Science | Fellow | May 2017 – August 2017

- 6 weeks of full-time training in Python, R, data analysis, data visualization, text analysis, web scraping/APIs, and various machine learning and statistical techniques
- HackCville.com/launch/academy

Big Eagle Yacht | Assistant Engineer/Deckhand | May 2016 – June 2016

- Assisted the head engineer with all vital systems resulting in a safe passage
- Was on call 24/7 to fix anything that might be wrong with the engine or other vital systems
- Was in charge of charting the ship's course by hand and making sure that we didn't collide with other ships

Skills/Technical Skills

Languages: Python, Java, C++, R, SQL, Assembly

Software: Jupyter, Rstudio, Tableau, Microsoft Office, Final Cut Pro, Sketchup, Blender

Other Technical: Git, Bash, Text Analytics, Statistical Data Analysis, Data Visualization, Machine Learning

Python Experience with: Topic Modeling, Machine Learning, Data Visualization, Web Scraping, Numpy, Pandas, Scikit-Learn, Matplotlib, Seaborn

Interests

Boxing, Sailing, Dancing, Urban Exploration, Paddleboarding, Music