APRIL WALKER

@ aprilcotmail@gmail.com 1-501-204-9276 github.com/aprilcotwut

WORK EXPERIENCE

Data Science Intern

The Hartford

May 2019 - Aug. 2019 Hartford, CT

- Collaborated on Python based "Proof of Concept" to determine the predictive power of third party datasets.
- Developed R codebase to explore and compare performance of dimension reduction and feature selection techniques.
- Gained experience using R and Python on cloud infrastructure to run models while managing resources.

Teaching Assistant

University of Arkansas

Aug. 2018 - Present Fayetteville, AR

Math Department

- Developing and teaching biweekly lessons in Calculus, tutoring students in various math courses, and assisting professors in proctoring and grading exams.

Big Data Engineer Intern

L3-Comcept

Jun. 2017 - Aug. 2017 Rockwall, TX

- Developed a new Apache Maven library using Java and SQLite
- Used Akka to integrate a Scala Rest API into an existing Java project
- Gained experience using version-control repositories (git-based) in a professional setting.

RESEARCH EXPERIENCE

University of Arkansas

Fayetteville, AR

Oct. 2018 - Present

Dr. Cheng's Climate Science Lab

- Utilizing various statistical inference methods with a focus on the Bayesian approach to predict extreme temperature events with nonstationary models in R.
- Currently preparing research findings to present at academic conferences and publish in peer-reviewed journals.

Aug. 2016 - Dec. 2018

Dr. Lehmer's Astrophysics Lab

- Participated in various collaborative and personal projects related to x-ray binary research utilizing Python, Bash, Tcl, and R in conjunction with astronomical software (CIAO and XSPEC).
- Gained experience pre-processing, binning, and visualizing noisy datasets using standard Python libraries.

EDUCATION

University of Arkansas

Fayetteville, AR

Masters of Science

Expected May 2020

- Field: Statistics and Analytics
- Research Area: Extreme Value Analysis
- GPA: 3.77

Bachelor of Science

May 2018

- Major: Physics
- Concentration: Computational Physics
- Minor: Mathematics
- Research Area: X-ray Binary Evolution

TECHNICAL SKILLS

Programming Languages

R, Python ●●●●○
SQL, MATLAB, Java, C/C++ ●●●○○
Scala, Rust ●●○○○

Big Data/ ML Technologies

Hadoop/HDFS, h2o.ai ●●●○○
PySpark, sklearn ●●○○○

Other Technical Skills

GNU/Linux ●●●●●
Bash/Shell, git, Vim ●●●○○

REFERENCES

Dr. Linyin Cheng
@ lc032@uark.edu
479-575-3469

Dr. Bret Lehmer
@ lehmer@uark.edu
479-575-2506

Russell Danna - L3 Sr. Manager
@ Russ.Danna@L3T.com