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Braedon Kimball

www.github.com/bkimball98

Education

Starkville, MS   **Mississippi State University**   **Jan 2019 - May 2021**

- **Major:** Software Engineering, B.S (G.P.A as of March 9th, 2021: **3.85**)
- **Programming Coursework:** Computer Networks, Data Structures & Object Oriented Programming, Algorithm Analysis, Digital Logic and Microprocessors
- **Software Engineering Coursework:** Software Architecture, AGILE, Software Quality Assurance, Senior Design capstone

Employment

Naval Research Enterprise Internship Program (NREIP) administered by the American Society for Engineering Education (ASEE). Internship location: US Naval Research Laboratory: Stennis

- Under the guidance of a Naval Research Laboratory physical scientist as my mentor, I implemented a variety of data science and machine learning code.
- Implemented the collection of climate data from model output netCDF4 files and observation sources into usable dataframes.
- Created a neural network using the Google Tensorflow framework to train, test, and deploy the network to improve predictions of the WAVEWATCH III ocean surface wave numerical prediction model.
- Skills Learned: Keras machine learning library, Python in Jupyter Notebooks IDE, data collection and manipulation, multi-file object oriented programming, basics of machine learning and modeling.

Software Projects

Procedural Data Collection and Presentation Web Application

- Collaborated to develop a web application that receives .csv files containing various student attributes such as ACT subscores and age, then generates a statistical report based on a database of prior students containing the same data.
- Led the data collection and calculation (back end) portion of the project in both the design and implementation phases.
- Utilized: Python 3.6x+, HTML 5, CSS, Object-Oriented Design, Data processing, Data manipulation.

Skills

Software: (*proficient*): C++, Python, Git (*familiar*): HTML/CSS, SQL, Visual Basic

Other Relevant Information

- Eagle Scout   April 2016
- Barista   Cat Island Coffeehouse, 2017-2020