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|  | **SURF Student Colloquium**  NIST – Gaithersburg, MD  August 7-9, 2018 | | |
| **Name:** Lela Bones | | **Award Number** | 70NANB18H103 |
| **Academic Institution:** Salisbury University | | **Major:** Computer Science and Mathematics | |
| **Academic Standing (Sept. ‘18):** | Junior @ Salisbury University | | |
| **Future Plans (School/Career):** | Attending graduate school with a research focus on brain computer interfacing (BCI) | | |
| **NIST Laboratory, Division, and Group:** | Engineering Laboratory, System Integration, Life Cycle | | |
| **NIST Research Advisor:** | Thurston Sexton | | |
| **Title of Talk:** | (WORK IN PROGRESS) | | |
| **Abstract:**  Having a large amount of data is good, but what next? Being able to visualize your data is arguably more important than simply having data. When you can properly visualize data, the data becomes more meaningful and applicable. Using the tags generated from a NLP Tagging Tool, my research entails generating meaningful visualizations inside a web based dashboard. This way companies will be able to more easily get use out of their data. The majority of my code is in Python and implements libraries, such as Flask to generate the dashboard. The problem that I ran into while creating the visualizations was that there isn’t enough public data. A solution that Thurston and I came up with was generating our own data using Recurrent Neural Nets (RNNs). Using Pytorch, a Python library that focuses on machine learning, I trained RNNs on the maintenance work orders that were available to us. From those trained RNNs I was able to generate new work orders.  BLAH BLAH BLAH | | | |