

## David Folarin

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Raleigh, NC 27615  
(318) 787-1282

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|------------------------|---|---------------------|--|
| <b>OBJECTIVE</b>       | A position in a small team, developing software across the stack, with the ability to participate in DevOps, particularly for business applications.  |                     |  |
| <b>EDUCATION</b>       | <i>Bachelor of Arts, Computational Psychology</i><br>Cornell University, Ithaca, NY, May 2018   |                     |  |
| <b>COMPUTER SKILLS</b> | <i>Languages &amp; Software:</i> Python, Django, Flask, Javascript, jQuery, React, C, C++, Unix, Bash, R, Matlab, Simulink, Fusion 360,   |                     |  |
| <b>EXPERIENCE</b>      | <i>Associate Engineer</i>   | August 2019-Present |  |
|                        | Caterpillar Innovation and Technology Division Building and Construction Products Plant, Clayton, NC  |                     |  |
|                        | <ul style="list-style-type: none"><li>• Solved in-production bugs related to joysticks previously neglected for 1500+ days, a problem which had already cost millions.</li><li>• Developed testing program for Telematics product using Selenium and other tools, quickly identifying outages.</li><li>• Programmed client for third party data acquisition software, enabling automatic, overnight calibration of in development machines.</li><li>• Led team of 5 interns in creation of automated testing program for small track type tractors and small wheel loaders, catching several regressions introduced in new machine software.</li><li>• Designed and implemented domain specific language for non-engineers that allows them to write scenarios for Caterpillar machines that can be run on hardware in the loop simulators, speeding up iteration after design meetings and increasing test coverage.</li><li>• Designed the plant model and several hardware pieces for upcoming Small Wheel Loader, enabling quick development of novel features.</li></ul> |                     |  |
|                        | <i>Data Analyst</i>   | Fall-Spring 2018    |  |
|                        | Psychology Department, Cornell University   |                     |  |
|                        | <ul style="list-style-type: none"><li>• Analyzed basketball shot data in support of Professor Gilovich's Hot Hand research program.</li><li>• Suggested new analysis in response to recent critiques of the study.</li></ul>  |                     |  |
|                        | <i>Research Programmer</i>  | Fall-Spring 2018    |  |
|                        | Psychology Department, Cornell University   |                     |  |
|                        | <ul style="list-style-type: none"><li>• Collected EEG data</li><li>• Aided in programming of eye tracking device to incentivize attentive participation in study.</li><li>• Reviewed literature on feature extraction from EEG data using SVM algorithms and shapelet theory.</li></ul>   |                     |  |
|                        | <i>Research Assistant</i>   | Fall-Spring 2017    |  |
|                        | Social Media Lab, Cornell University  |                     |  |
|                        | <ul style="list-style-type: none"><li>• Created survey website to collect sentiment data about Facebook Algorithms</li></ul>  |                     |  |

- Implemented a novel pairwise ranking algorithm to analyze survey data
- Managed Amazon Mechanical turk responses
- Created text munging scripts to reduce research assistant's workload

**EXTRA-  
CURRICULAR  
ACTIVITIES**

Programmed entire stack for several student startups.  
Currently working on <https://wiki.arberbox.com> my personal project.  
Led seminars for Cornell Data Science Club.  
Created latent dirichlet allocation library for python.  
Created several GDELT utilities for Cornell Project teams.