

David Folarin

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

- 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.