

Johnny Sellers

Results-driven professional with passion for data analysis and software engineering; contributions to open-source software in areas of computation, data science, and web applications; aptitude for managing problem complexity and ambiguity with a rigorous approach.

Contact

E:
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Education

2019 **University of Washington-Seattle**, MS, Applied Math
Focus in numerical analysis, optimization, and data analysis.
2013 **North Carolina State University**, BS, Mechanical Egr.
Undergraduate RA in Micro/Nano Engineering Lab.

Skills

Languages:
Bash, C++, Python, SQL
Computation:
MATLAB, scikit-learn
Frameworks:
Qt, TensorFlow
Build Tools:
GNU Make, SCons

Experience

2014-2016 **Engineering Technician**
Monsanto Company, RTP, NC

- Enhanced data-acquisition technologies and procedures leading to improved diagnoses and reductions in downtime up to 30% for multiple automated-greenhouse processes.
- Operation and troubleshooting of SCADA systems for climate control, plant movement, and imaging data acquisition.

2014 **Mechanical Engineering Intern**
Shipman Technologies, Inc., Durham, NC

- Lead engineer developing electric-powered bicycle components from specification.
- Headed re-engineering for manufacturability and project scheduling; devised machining fixtures and assembly setups for high throughput.

Projects

[Data-Driven Text Summarization](#), Evaluation of unsupervised, extractive techniques, namely LSA and TextRank, applied to single-document automatic text summarization of TED Talk transcripts.

[Goodreads Review Sentiments](#), NLP project spanning entire data science pipeline—experiment design; data collection, cleaning, and visualization; and ML and DL methods applied to sentiment analysis. Tools used include Apache Spark, HDFS, Sqoop, Scrapy, and D3.js.

[HPC-Library](#), C++ library for developing numerical linear algebra routines with shared-memory, GPU and MPI on Docker Compose clusters.

Certifications

Engineering Intern, NC Board of Examiners for Engineers and Surveyors