

Johnny Sellers

*Junior Software
Engineer*

Results-driven professional with passion for software engineering and continuous learning; contributions to open-source software in areas of computation, data science, and web applications; aptitude for managing complex, ambiguous problems with rigorous approach.

Contact

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Education

University of Washington, MS, Applied Mathematics

Focus in data analysis, numerical analysis, and HPC.

North Carolina State University, BS, Mechanical Engineering

Undergraduate RA in Micro/Nano Engineering Lab.

Skills

Languages:

Bash, C++, Python

Frameworks:

Qt, TensorFlow

Computation:

MATLAB, scikit-learn

Projects

iMessage, RESTful API for web messaging, built on Java EE with Hibernate ORM, Maven, and the Jersey library for JAX-RS.

HPC-Library, C++ library for developing linear algebra routines with shared-memory, GPU and MPI on Docker Compose clusters.

Goodreads Review Sentiments, NLP project covering experiment design, data collection, cleaning, and visualization, and evaluation of ML and DL methods applied to sentiment analysis. Tools used include TensorFlow, Apache Spark, Sqoop, Scrapy, and D3.js.

Experience

Engineering Technician

2014-2016

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.
- Analysis and reporting of process performance using cycle time studies, SQL, and data visualization.

Mechanical Engineering Intern

2014

Shipman Technologies, Inc., Durham, NC

- Lead engineer heading re-engineering for manufacturability and project scheduling; devised machining fixtures and assembly setups for high throughput.
- Troubleshooting and maintenance of SCARA and other robotics for medical device production lines.