# **Johnny Sellers**

Software Engineer

Software engineer with background in applied mathematics; experience in algorithm design, analysis, and implementation; contributions to open-source software; experience with web scraping, machine learning libraries, and data visualization; aptitude for problem solving and solution validation.

# **Contact Info**

#### Website

https://johnsell620.github.io

E-mail

**Phone** 

# **Skills**

Languages:	
C++	
Python	
PHP	
SQL	
JavaScript	
Bash	
<b>Computation:</b>	
Matlab	
NodePy	

### Data/Learning:

Clawpack

TensorFlow

Keras	
Pandas	
WebDev:	
HTML5, CSS3	
Sass, Susy	
REST APIS	

# REST APIs Frameworks:

React. is

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# Webpack

Gulp

Database:
MySQL
phpMyAdmin

# **Experience**

# 2014-2016 Engineering Technician

Monsanto Company, RTP, NC

- Enhanced data-acquisition software 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 data acquisition automation lines.
- Provided key operational insight for process improvement.

# 2014 Associate Mechanical Engineer

Shipman Technologies, Inc., Durham, NC

- Lead engineer developing electric-powered bicycle components from customer specification.
- Headed re-engineering for manufacturability changes to materials and design, devised machining fixtures and assembly setups for high throughput, managed production scheduling.
- Maintained exhaustive documentation in accordance with ISO 9001 standards.

### 2013 Undergraduate Research Assistant

Micro/Nano Engineering Lab, Department of Mechanical and Aerospace Engineering, NC State University, Raleigh, NC

• Aided in experiment setup and literature review for project developing scalable mechanism for rapid, benign extraction of live HeLa cells from growth substrate via electromagnetic actuators.

## **Education**

# **University of Washington-Seattle**, MS, Applied Mathematics Focus in numerical analysis of initial boundary value problems with emphasis on algorithm analysis and implementation; high-performance computing - parallel, distributed, GPU computing; optimization.

2013 North Carolina State University, BS, Mechanical Engineering Developed electromechanical system to move large-scale water purification system in capstone project.

# **Certifications**

Engineering Intern, North Carolina Board of Examiners for Engineers and Surveyors