Johnny Sellers

Software Engineer

Passionate engineer with proven ability to positively impact team and results; contributions to open-source software in areas of computation, data science, and web applications; aptitude for methodical, studied approach to problem solving and solution validation vital to software engineering and sciences; reputation for being reliable, helpful, and a fast learner.

Contact Info

Website
https://johnsell620.github.io
E-mail

Phone

Technical Skills

(basic/intermediate/advanced/expert)

Languages:
- C++
- Python
- PHP
- Bash
- SQL

Computation:
- Matlab
- NodePy
- Clawpack

Data/Learning:
- TensorFlow
- Pandas
- Scrapy

WebDev:
- HTML5, CSS3
- Sass, Susy
- REST APIs

Frameworks:
- jQuery
- Bootstrap

Build Tools:
- GNU Make
- Gulp
- Webpack

Databases:
- 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 **Mechanical Engineering Intern**

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

2019 **University of Washington-Seattle**, MS, Applied Mathematics

Focus in numerical analysis of initial boundary value problems with emphasis on algorithm analysis and implementation; numerical linear algebra; high-performance computing; optimization (imminent).

2013 **North Carolina State University**, BS, Mechanical Engineering

Developed electromechanical system to move large-scale water purification system in senior capstone design project.

Certifications

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