Johnny Sellers

Software Engineer

Software engineer with background in applied mathematics; experience in algorithm design, analysis, and implementation; contributions to opensource 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	
Computation:	

Matlab			
NodePy			
Clawpack			

Data/Learning:

TensorFlow

Keras

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

REST APIs Frameworks:

React. is

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jQuery	
Bootstrap	
Build Tools:	
GNU Make	

phpMyAdmin

Gulp Webpack	
Database:	
MySQL	

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

2019 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.

North Carolina State University, BS, Mechanical Engineering 2013 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