Johnny Sellers

Software Engineer

Software engineer with background in applied mathematics and experience in manufacturing and automation; 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

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Phone

919-744-9631

Skills

(basic/intermediate/advanced/expert)

Languages:

C++Python PHP **SQL** Bash

Computation:

Matlab NodePy Clawpack

Data/Learning:

TensorFlow Keras **Pandas**

Web Development:

HTML5, CSS3 Sass, Susy **REST APIs** Frameworks:

MySQL

phpMyAdmin

React. is jQuery **Bootstrap Build Tools: GNU Make** Gulp Webpack **Database:**

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.

Mechanical Engineering Intern 2014

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