

Johnny Sellers

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PROFESSIONAL SUMMARY

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

EDUCATION

University of Washington-Seattle, MS, Applied Mathematics (2019)

Focus in numerical analysis of PDE initial boundary value problems with emphasis on algorithm analysis and implementation; high-performance computing; optimization.

North Carolina State University, BS, Mechanical Engineering

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

TECHNICAL SKILLS

Languages: C++, Python, SQL, PHP,
JavaScript, Bash

Web Development: HTML5, CSS3, Sass, Susy,
Apache2

Frameworks: React.js, jQuery, Bootstrap

Build Tools: GNU Make, Gulp, Webpack

Computation: Matlab, TensorFlow, Keras,
Pandas, Clawpack, NodePy

Databases: MySQL

WORK EXPERIENCE

Engineering Technician, Monsanto Company, RTP, NC

2014 – 2016

- 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 multiple SCADA systems for climate control, plant movement, and data acquisition automation lines.
- Provided key operational insight for process improvement.

Associate Mechanical Engineer, Shipman Technologies, Inc., Durham, NC

2014

- 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.

Undergraduate Research Assistant, Micro/Nano Engineering Lab,

Department of Mechanical and Aerospace Engineering, NC State University, Raleigh, NC

2013

- 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.
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CERTIFICATIONS

Engineering Intern certified by North Carolina Board of Examiners for Engineers and Surveyors.