

Johnny Sellers

Software Engineer

Contact Info

Website

<https://johnsell620.github.io>

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Phone

(919) 744-9631

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	■ ■ ■ ■
jQuery	■ ■ ■ ■

Frameworks:

React.js	■ ■ ■ ■
Bootstrap	■ ■ ■ ■

Build Tools:

GNU Make	■ ■ ■ ■
Gulp	■ ■ ■ ■
Webpack	■ ■ ■ ■

Databases:

MySQL	■ ■ ■ ■
phpMyAdmin	■ ■ ■ ■

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.

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.

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 software systems for climate control, plant movement, and data acquisition.
- Provided key operational insight for process improvement and experiment planning/execution.

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.

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.

Certifications

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