Johnny Sellers

Entry-Level
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; reputation for being reliable, helpful, and a fast learner.

Contact Info

E-mail
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(919) 744-9631
GitHub
https://github.com/JohnSell620

Technical Skills

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

Computation:
Matlab, NodePy, Clawpack

Data / Machine Learning:
TensorFlow, Pandas, Scrapy

Web Development:
HTML5, CSS3, Sass, jQuery, REST APIs

Frameworks:
React.js, Bootstrap

Build Tools:
GNU Make, Gulp, SCons

Databases:
MySQL, phpMyAdmin

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 technologies 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.
- 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