

# Johnny Sellers

*Entry-Level*

*Software Engineer*

## Contact

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### E-mail

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### Phone

(919) 744-9631

### GitHub

<https://github.com/JohnSell620>

## Skills

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### Languages:

C++, Python, PHP, Bash, SQL

### Computation:

Matlab

### Web Development:

HTML5, CSS3, Sass, jQuery,  
REST APIs

### Frameworks:

React.js, Bootstrap

### Build Tools:

GNU Make, Gulp, SCons

### 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; reputation for being reliable, helpful, and a fast learner.

## Education

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**2019**

**University of Washington-Seattle**, MS, Applied Mathematics

Focus in numerical analysis of initial boundary value problems, numerical linear algebra, high-performance computing, optimization for machine learning (imminent), and data analysis (imminent).

**2013**

**North Carolina State University**, BS, Mechanical Engineering

Undergraduate research assistant in the Micro/Nano Engineering Lab.

## Experience

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**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 insight for process improvement and experiment planning.

**2014**

**Mechanical Engineering Intern**

*Shipman Technologies, Inc., Durham, NC*

- ▮ Lead engineer developing electric-powered bicycle components from customer specification.
- ▮ Headed re-engineering for manufacturability and project scheduling; devised machining fixtures and assembly setups for high throughput.

## Projects

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**HPC-Library**, Numerical linear algebra library for testing methods with shared-memory threading, GPU, and MPI using modern C++, Nvidia CUDA, and MPICH on Docker Compose clusters, respectively.

**Goodreads Review Sentiments**, Project exploring the data science pipeline with web scraping, NLP, and data visualization. Some technologies used include TensorFlow, HDFS, Sqoop, Pydoop, Scrappy, and D3.js.

**jMessage**, RESTful Web API for social media messaging service, built on Java EE with Hibernate ORM, Maven, and Jersey for JAX-RS.

## Certifications

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