Johnny Sellers

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Skills

Languages: C#, C/C++, Python, Bash, PowerShell
Tools: Git, MATLAB, MSFT Excel, TFS
Platforms/Databases: Linux/Unix, Eclipse, MSFT Visual Studio, MySQL

Experience

Software Test Engineer — **Onto Innovation**, *Snoqualmie, WA* — Aug. 2019 – Present
- Developed tools to execute automated performance and regression tests on commercial data analysis software product. Technologies used: PowerShell, VBA, MSFT Excel, MSFT Test Manager.
- SDLC and QA experience writing and executing functional and non-functional tests.
- Provided training and application support for image and laser-scattering data analysis software integrated with fully automated semiconductor inspection tool.

Engineering Technician — **Monsanto Company**, *Durham, NC* — Jul. 2014 – Jul. 2016
- Developed application for recording process-downtime data that led to higher data accuracy and drove reductions in downtime as much as 30% for multiple processes.
- Testing, operation, and troubleshooting of SCADA systems for image acquisition, climate control, and plant movement within a fully automated greenhouse facility.

Mechanical Engineering Intern — **Shipman Technologies, Inc.**, *Durham, NC* — Mar. 2014 – Jul. 2014
- Led efforts in scheduling, material specification, and design-for-manufacture in project developing components for an electric-powered bicycle design.
- Troubleshooting and maintenance of robotics and data-acquisition software for various medical device production lines.

Projects

FileSystemHelper Windows Application — Dec. 2020 – Present
https://github.com/JohnSell620/FileSystemHelper
- Developed extensible desktop application for doing file system organizational tasks such as automatic text file summarization, image captioning, and modifying file properties.
- Technologies used: C#, WPF, MaterialDesignInXAML Toolkit, TensorFlow 2, .NET Framework 4.7.2.

High-Performance C++ Numerical Linear Algebra Library — Aug. 2017 – Present
https://github.com/JohnSell620/HPC-Library
- Built C++ library for developing sequential and parallelized linear algebra routines using shared memory threading, GPU programming, and MPI on Docker Compose clusters.
- Technologies used: C++17, CUDA, OpenMPI, Docker Compose.

Full-Stack Document-Level Sentiment Analysis — Apr.2018 – Apr. 2019
https://github.com/JohnSell620/sentiment-analysis-goodreads-reviews
- Developed NLP/data-engineering project involving web scraping, data preprocessing, visualization, and evaluation of Naïve Bayes and LSTMs applied to sentiment analysis of Goodreads book reviews.
- Technologies used: TensorFlow 1, Scrapy, Pandas, D3.js.

Education

MS in Applied Mathematics, University of Washington, *Seattle, WA* — Jun. 2019
- Focus on statistical learning and numerical analysis of PDE systems.

BS in Mechanical Engineering, North Carolina State University, *Raleigh, NC* — Dec. 2013
- Research assistant in the Dept. of Mechanical and Aerospace Micro/Nano-Engineering Lab.