Alex McNurlin

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Education: *University of Idaho*

- B.S. Computer Science   *Graduation May 2020*
- B.S. Mechanical Engineering   *3.8 GPA*
- B.S Mathematics (Computation focus)   *Dean's list 2014-Present*

Relevant Classes

- **Taken:** Machine Learning, Numerical Methods/Numerical Linear Algebra, Cryptography.
- **Plan to take:** Evolutionary Computation, FEA, CFD, Partial Differential Equations.

Skills:

- Familiar with many programming languages, and excited to learn more.
- Self-motivated and able to apply analytical solutions to complex problems.
- Proficient with the Linux command line and using Linux as a development environment.
- Skilled with using Git to manage codebase.
- Adept with software such as Vim, Excel, SolidWorks, MatLab, and EES.

Programming Languages: *Code snippets at http://alexmcnurlin.github.io/code_snippets*

Proficient	Knowledgeable	Familiar	Interested
Python	C#	Java	Julia
C/C++	HTML/CSS/JS/PHP	Fortran	Haskell
Bash	MatLab/Octave	Erlang	VBA

Professional Experience: *4 years programming experience*

Software Engineering Intern *at Schweitzer Engineering Laboratories (April 2017 – Current)*
- ◦ Gained experience with SEL OpenFlow controller and switch.
- ◦ Applied Python and Gherkin to write automated functional tests to verify that company software meets the given requirements.
- ◦ Automated control of external hardware as part of functional tests.

Mechanical Engineering Intern *at Schweitzer Engineering Laboratories (May – August 2018)*
- ◦ Designed mechanical assembly of hardware for network failover testing.
- ◦ Utilized SolidWorks to design sheet metal components.
- ◦ Evaluated exterior components to determine those that met system specifications, environmental requirements, and company policies.
- ◦ Performed stress and tolerance analyses to verify components were viable.

Junior Software Developer *at Kickback Rewards Systems. (June 2014 – March 2017)*
- ◦ Collaborated with a team of developers to maintain and improve company web applications.
- ◦ Utilized HTML, CSS, and JavaScript for front end development, with the frameworks Jekyll (Ruby), Flask (Python), and WordPress (PHP).

Projects: *Projects viewable at https://alexmcnurlin.github.io/portfolio*