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# Seth M. Lyles

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## Education

**College of William & Mary** M.S. Operations Research | Williamsburg, VA | 2017-2019

- Merit-based funding increased to full scholarship after successful first year
- Teaching Assistant and grader for over 20 students in Calculus and Operations Research
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- As Social Chair of the Graduate Student Association, organized Department and Graduate-wide activities

**Denison University** B.S. Computer Science | Granville, OH | 2008-2012

- Earned Founders, Academic, and Alumni scholarships totaling over \$100,000
  - Denison Summer Scholars: Studied heirarchical job scheduling using multiple processors
  - Minor in Mathematics and interest in Physics, Chemistry, and French
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## Skills

- Coding/Scripting: Python, R, MATLAB/Octave, SQL, Julia, AMPL, C++, JavaScript, VBA
  - Environments: Visual Studio/Code, Vim, Jupyter, Distributed systems
  - Fundamentals: Windows, Linux, OSX, Hardware Assembly
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## Experience

**Lawrence Livermore National Laboratory** Cybersecurity Summer Institute Intern | Livermore, CA | 2018

- Improved performance of Python and Matlab machine learning models
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- Compiled array of procedures to improve machine learning feature selection

**Optis North America** Lead Application Engineer | Seattle, WA | 2014-2015

- Acted as project manager while consulting for Zodiac Aerospace, Tesla Auto, NASA suppliers, Boeing Aerospace, Google, and others
- Developed python-based time-dependent model to simulate ultra-violet sterilization in a hospital
- Designed CAD model of a semi-truck display needle to outperform the uniformity distribution of a competitor
- Improved data acquisition for testing visibility/legibility metrics on a spacesuit control system display
- Consulted on development and improvement of LIDAR system
- Sole engineer for one third of North American accounts

**Optis North America** Application Engineer | Troy, MI | 2012-2014

- Established Virtual Reality environment, developed ergonomic models, and demonstrated functionality to customers
- Wrote and integrated virtual quality control tests pre-production, reducing customer's decision time by six weeks
- Built and maintained dedicated Windows cluster for large-scale Monte Carlo simulations
- Edited and expanded virtual prototype template webpages
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