Seth M. Lyles

slyles1001@gmail.com | Williamsburg, VA | (740) 645-5739

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
- Social chair of the Graduate Student Association

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

Skills

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

Experience

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

- Applied cutting-edge optimization techniques to a variety of data
- Harnessed supercomputers to investigate network trends
- 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 needle for semi-truck display 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
- Integrated quality control tests pre-production, reducing customer's decision time by six weeks
- Built dedicated cluster to reduce network obstacles
- Edited and expanded virtual prototype template webpages