Seth M. Lyles

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Objective

Seeking a research position to apply my analytic and simulation skills to address real world problems from new directions. Striving to continue improving my optimization and cybersecurity abilities.

Education

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

- 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
- Created time-dependent model to simulate ultra-violet sterilization in a hospital
- Designed needle for semi-truck display to outperform the uniformity distribution of a competitor
- Advised on metrics to assess visibility/legibility of a display for spacesuit control systems
- 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

- Organized Virtual Reality modeling for ergonomics studies
- 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
- Promoted to Lead Application Engineer in Seattle