Seth M. Lyles

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Objective

Seeking a research position to apply my analytics and simulation skills to approach real world problems from new directions. Hoping to improve my optimization and cyber security abilities in the process.

Education

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

- Scholarship for out-of-state students
- Teaching Assistant for over 20 Calculus students
- Social chair of the Graduate Student Association
- 3.6 GPA

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

- Earned Founders, Academic, and Alumni scholarships totaling over $100,000
- Summer Scholars on 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 (Ubuntu), 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.