J.R. Powers-Luhn

757-286-9023 | jrpl@alumni.virginia.edu

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| --- | --- |
| Graduate Research Assistant | August 2008-May 2011 |
| Submarine Group Seven | Knoxville, Tennessee |

* Developing neural network model to correct misalignment in associated particle imager
* Developing portable, miniaturized associated particle imager for nuclear security

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| Data Science Summer Intern | May 2019-August 2019 |
| Lawrence Livermore National Lab | Livermore, California |

* Used long short-term memory neural networks to categorize operations for nuclear facilities
* Used machine learning and natural language processing tools to predict properties for new molecules

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| Officer in Charge | August 2008-May 2011 |
| U.S. Navy Reserves | Louisville, KY | Washington, D.C |

* Officer in charge of 170-sailor unit with 10 direct reports and 160 indirect
* Served as operations manager for Military Sealift Command ships

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| Data Scientist | June 2011-August 2016 |
| Intercap Energy Systems | Baltimore, Maryland |

* Developed regression models to predict commercial building load curves
* Developed and deployed Apache Tomcat based product to manage building operations strategies

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| Executive Assistant | August 2008-May 2011 |
| Submarine Group Seven | Yokosuka, Japan |

* Served as executive assistant to admiral in charge of submarine operations in the Western Pacific, Indian Ocean, and Persian Gulf
* Managed communications between emergency nuclear response cell and US-based experts during Fukushima-daiichi meltdown

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| Asst Engineering Dept Head | November 2005-August 2008 |
| USS Charlotte | Pearl Harbor, Hawaii |

* Completed two missions vital to national security
* Qualified Senior Reactor Operator (equivalent)
* Supervised major upgrade of instrumentation and control system

# Education

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| University of Tennessee | PhD, Nuclear Engineering | Est. August 2020 |
| Old Dominion University | Master of Engineering Management | May 2017 |
| University of Virginia | B.S. Physics | May 2004 |

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| **Languages** | Python, C++ |
| **Tools** | Pandas, Keras, TensorFlow, Flask, LaTeX, Matlab, Jupyter, MPI |
| **Nuclear Software** | MCNP |

Security Clearance DoD: Top Secret, SCI eligible  
DoE: Q

Honors And Awards

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| Navy Achievement Medal | 2007, 2008, 2014 |
| Navy Commendation Medal | 2008, 2011 |
| Alpha Nu Sigma Honor Society | 2016 |
| NSSC Fellow | 2016-2020 |