

Education

CARNEGIE MELLON UNIVERSITY, HEINZ COLLEGE

Pittsburgh, PA

- Master of Information Systems Management - Business Intelligence and Data Analytics
- Coursework: Statistics, Object Oriented Java Programming, Database Management, E-Commerce

May 2023

UNITED STATES MILITARY ACADEMY

West Point, New York

- GPA: 3.55/4.33
 - Bachelor of Science in Chemistry—Organic, Physical, Inorganic, Polymers, Biochemistry, Instruments
 - Regional Research Chemist (2017)
 - Treasurer, Scout Master's Council Club (2015-2017)
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May 2017

Project Experience [Website: <https://github.com/TimJN17/Project-Experience>]

[SQL | Databases] Used SQL to Pull Complex Information

Fall 2021

- Quantum mechanically optimized chemical bond lengths using supercomputer programming

[Object Oriented] Created a Data Management Interface

Fall 2021

- Quantum mechanically optimized chemical bond lengths using supercomputer programming

[Machine Learning] Python Machine Learning (ML) Algorithms

Summer 2016 & 17

- Wrote Machine Learning algorithms using SciKit Learn for various purposes
 - Wrote Machine Learning algorithms from scratch for various levels of analysis in neural networks, decision trees, and for deep learning
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Skills

Programming: Machine Learning: Scikit Learn, Python: pandas; matplotlib; numpy, Distributed Systems, SQL

Statistical Analysis: 2SLS Regression, Monte Carlo

Communication: Professional Written and Verbal Correspondence

Organizational Leadership | Project Management: US Army Line Platoon Leader, US Army Mortar Platoon Leader

Work Experience

1-18 INFANTRY REGIMENT. 1ST INFANTRY DIVISION*Line And Mortar Platoon Leader* | November 2018 – November 2020

Fort Riley, KS

- **[Project Management | Leadership]** Managed separate 40 and 24-man platoons in a Combined Arms Battalion with the mission to train, deploy, fight, and win full spectrum operations world-wide.
- **[Results-Driven]** Responsible for everything the platoons did and failed to do. Responsible for the maintenance and accountability of all Platoon Equipment valued in excess of 17 million dollars.
- **[Supply Chain Management]** Planned, resourced, conducted, and evaluated training of the platoons in order to win in a complex environment.
- **[Communication]** Prepared professional, written, and verbal correspondence ranging from sensitive investigations to technical information.

LAWRENCE LIVERMORE NATIONAL LABORATORY (LLNL) – MATERIALS SCIENCE

Intern | May – June 2016 & May – July 2017

Livermore, CA

- **[Innovation | Creativity | Research]** Constructed quarter-sized, single discharge, coin-cells from raw materials for 25 Lithium-Air and 20 Lithium-Sulfur batteries; optimized electrolytes with 6 different chemicals; optimized carbon mesh adsorbent surfaces with ~ 10% sulfur by weight; increased battery capacity by minimizing dendrite formation by ~ 7%.
- **[Written Reports | Presentation]** Prepared written, technical reports on all laboratory processes.