

## 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]** SQL Project Work

Fall 2021

- Quantum mechanically optimized chemical bond lengths using supercomputer programming

**[Object Oriented]** Created a Data Management Interface

Fall 2021

- Wrote a user interface to request, store, collect, and display user data

**[NLP]** Error Message NLP

Summer 2022

- Wrote four separate python scripts to be used in sequence as a component of a larger, ongoing project.
  - This code was used to request data, process the data, plot the data, and analyze the data using TF-IDF and PCA
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## Skills

Programming: Machine Learning, Python, NLP, 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

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## Work Experience

1-18 INFANTRY REGIMENT. 1<sup>ST</sup> 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; increased battery capacity by minimizing dendrite formation by ~ 7%.
- **[Natural Language Processing]** Prepared a GitHub repository with processed text for an ongoing NLP project
- **[Written Reports | Presentation]** Prepared written, technical reports on all laboratory processes.