

# Kieran Nehil-Puleo

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**Portfolio:** <http://www.kierannehil.com/projects.html>

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## Education

### Michigan State University

East Lansing, Michigan

#### Degrees

Statistics – BS

Material Science Engineering  
–BS

#### Minors

Computational Modeling  
Science and Engineering

Computer Science  
Engineering

## Awards

### Dean's List

### Professorial Assistantship

### STATE Scholarship

### Honors College

### James R. Burnett Endowment

## Programming Skills

**Python :** Advanced (3 years)

**Deep Learning:** Advanced  
(2 years)

**Machine Learning:** Advanced  
(3 years)

**Linux Shell :** Adept (3 years)

**C++ :** Adept (2 years)

**R :** Intermediate (1 year)

## Experience

### Michigan State University, CMM / Research Assistant

August 2018- Present

- Computational Material Mechanics team member and researcher (CMM)
- Performed simulation-based material modeling to describe the micro-structural deformation of pure metals and alloys
- Used python, c++, and bash to interpret and perform research on various Computational Material Science problems, typically involving large amounts of data
- Developed software using high and low level programming languages to create applications that can be used to analysis Material Science data
- Performed scripting and data analysis/processing on secure linux shell (ssh)

### Michigan State University, CMSE / Undergraduate Learning Assistant

June 2019- May 2020

- Computational Modeling Science and Engineering learning assistant (CMSE)
- Assisted students with python scripting, Git, and data science concepts/principles
- Helped debug student written software during class period

### Textron, Bell Flight / Business Analytics Intern

June 2019- August 2019

- Worked on a team aiding in contract proposals, repair and maintenance data analysis, and financial reporting automation
- Automated financial and supply chain processes using python scripting
- Analyzed commercial helicopter repair data to estimate future part consumption for customer warranty contract proposals
- Extensively used Excel and python to analyze various data sources

### Michigan State University, Ghosh Labs / Research Assistant

August 2017-May 2018

- Performed data analysis of various optical films to calibrate oxygen sensors in liquid
- Researched phosphorescence of metal haloid materials for the purpose of inert dissolved oxygen sensors

### OptiO2 / Data Analyst, Research Assistant

June 2017 – September 2017

- Worked as technician deploying oxygen sensors to remote regions
- Implemented metal haloids to create a cost-effective dissolved oxygen sensor for use in agriculture

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## Activities

### 3 x National Qualifying Olympic Weightlifter

I have trained and dieted consistently since I was 15 for the sport of Olympic Weightlifting. Performing on a competitive level has made me develop an extreme level of self-discipline and motivation, but it is one of my passions. In 2017, I qualified for Collegiate National in the 69 kg weight class. This last year, 2018, I had a lifting total that again qualified me for Collegiate Nationals, but this time in the 73 kg weight class