

## Matthew Roberts

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### Education

Michigan State University - East Lansing Michigan - Bachelors in Data Science - May 2024 – 3.9 GPA

### Experience

#### IT-Ambulatory Intern

Summer 2023 | Sparrow Hospital | Lansing, MI

- Collaborated with a team of caregivers to collectively define the scope and content of ambulatory reports.
- Swiftly attained proficiency in utilizing complex medical software (EPIC), enabling effective work.
- Streamlined data presentation by cleaning and organizing over 50 reports, guaranteeing clarity for end-users.
- Identified issues with 100+ columns and troubleshooted to effectively implement necessary fixes, ensuring data accuracy.

#### Data-Analyst Intern

Summer 2022 | Cedar Point | Sandusky OH

- Constructed Excel dashboard to provide relevant labor statics to division leads across the park.
- Automated 5+ data cleaning processes with excel macros and python to increase department efficiency.
- Cleaned and compiled dozens of datasets and reports for analysis by several members of senior management.

#### - Undergraduate Research Assistant

Fall 2020 to Spring 2022 | MSU | East Lansing, MI

- Integrated several sensors with Raspberry Pi with differing communication protocols to track environment state.
- Utilized Python and Open CV to detect occupancy levels in lab and field settings using image processing.
- Ran dozens of machine learning scripts to produce plots for researchers to compare neutrino behavior.

#### Legislative Intern

Fall 2020 | Michigan House of Representatives | Lansing, MI

- Demonstrated strong interpersonal skills by assisting constituents through numerous calls.
- Assessed each caller then navigated to government websites and resources to resolve their individual request.
- Lead the overhaul of constituent interaction information by building multi-page excel spreadsheet.

### Projects

#### Next Cloud Server | Summer 2023

- Designed a self-hosted Nextcloud server, including the configuration of DNS settings to establish secure HTTPS access.
- Strengthened server security through application of best practices, and deployment of Greenbone Security Assistant.

#### Website Development 1 | Summer 2022

- Implemented structure for a multi-page website through python based back-end framework.
- Constructed MySQL database/server and incorporated into website back-end and front-end HTML code.
- Integrated Elastic Search server into website to enable user browsing of database with key words and phrases.
- Designed multiple HTML interfaces with bootstrap components and CSS scripts.

#### Eagle Scout Project | Summer 2019

- Coordinated and managed the construction of a 16ftx16ft pavilion for 200+ member local elementary school.
- Negotiated the scope of project requested by beneficiary to fit within my experience and agreed upon final design.
- Estimated project costs, fundraised over \$2000 to meet the needs, and spent within the budget constraints.
- Purchased several thousand dollars' worth of materials, tools, food, and organized transportation to the build site.

### Skills

Excel, Macros, Pivot Tables, Slicers, Pivot Charts, Formulas, Python, Pandas, Django, Scikit-learn, Bs4, Jupyter, Terminal, Outlook, Seaborn, R Studio, Adobe Illustrator, Adobe Lightroom, MySQL Workbench, CSS, HTML, EPIC Ambulatory

### Awards

Eagle Scout, Class of 2020 Salutatorian  
MSU Honors College, Dean's List

### Activities

Spartan Marching Band, Piano, Running, Photography  
Mountain Biking, Skiing, Cooking, Hiking, Camping