

Garrett A. Partenza

SOFTWARE ENGINEER/DATA SCIENTIST

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Education

Towson University

Baltimore, MD

B.S. IN COMPUTER SCIENCE

May 2021

- 3.74 GPA
- Active member of the University Honors College.
- Dean's List awardee every semester since enrollment.

Experience

Towson University Software Engineering Laboratory

Baltimore, MD

MACHINE LEARNING RESEARCHER

Feb. 2020 - Present

- Assisted in training a neural network that is capable of classifying security vulnerabilities based on Common Weakness Enumerations (CWEs). Uses an approach that combines abstract syntax trees and natural language processing with recursive neural networks.
- Currently working on a project to improve our previous results by applying recent advances in graph neural networks and geometric deep learning.

KBR Aerospace

Jacksonville, FL (remote)

NATURAL LANGUAGE PROCESSING ENGINEER

Oct. 2020 - PRESENT

- *Project Habilis* - Currently working with a team of engineers on applying natural language processing to automate topic modeling tasks for the United States Naval F-35 Air-fleet.

KBR NASA

Greenbelt, MD

TELEMATICS ENGINEER

May. 2020 - PRESENT

- *Summer 2020 Internship* - Designed and developed a multi-dashboard web application for NASA Goddard Space Center that summarized their cloud computing environment into a single DevSecOps visual tool. The web application supported centralized OS logging, as well as implemented artificial intelligence to meet security needs.
- *ECARS* - Currently developing a real-time analytics tool that tracks, collects, and displays the telematics data of a military customer's fleet of vehicles.

Axiom Strategies

Annapolis, MD

RESEARCH INTERN

Jun. 2019 - Aug. 2019

- *Summer 2019 Internship* - Implemented computer security technologies for opposition research on a California tech company suspected of illegally selling advanced hardware to countries sanctioned by the United States. The approach combined network reconnaissance tools with pseudonymous profiles in order to gather evidence for a final report, which was ultimately sent to U.S. Homeland Security.

Technical Skills

- **Python** - Tensorflow, PyTorch, Keras, Pandas, NumPy, Scikit-Learn, Gensim, Matplotlib.
- **Java** - Object-Oriented Programming and Design.
- **AWS** - Lambda, EC2, S3, VPC, SageMaker, CloudWatch, GuardDuty, Inspector, and DeepRacer.
- **Artificial Intelligence** - Reinforcement Learning, Machine Learning, Geometric Deep Learning, and Natural Language Processing
- **Databases** - MySQL, Neo4j, Elasticsearch.
- **React** - Experience in both developing and deploying complex, multi-page web-apps.
- **Linux** - File traversal, vim editing, system logging, scripting, and process automation.
- **Git** - Experience with version control and collaborative development.

Extracurricular Activity

Towson Technology Committee

Baltimore, MD

REPRESENTATIVE

Jan. 2020-Present

- Represents the undergraduate student body in determining the purchase of software licensing for university learning.

Honors & Awards

2017-2021 **Scholarship**, TU Academic Scholarship

Towson, MD

2019-2021 **Scholarship**, Maryland State Senatorial Scholarship

Annapolis, MD

2019-2020 **Scholarship**, Maryland Delegate Scholarship (District 5)

Westminster, MD