Ross McLane

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EDUCATION

Georgia Institute of Technology Atlanta, GA
BS in Applied Physics *Aug. 2015 – Aug. 2019*
Stamps President's Scholar
General GPA: 3.73, Major GPA: 3.91

EXPERIENCE

Rocky Mountain Institute Atlanta, GA / Boulder, CO
Data Science Contractor / Data Science Intern *May 2019 - Present*

- Performed cluster analysis to analyze electric vehicle charging behavior and help international cities understand their EV charging infrastructure needs in Python.
- Built Extract-Transform-Load (ETL) data pipeline for GPS transportation data in Azure, powered by Apache Spark.

Partnership for Advanced Computing Environments (PACE) Atlanta, GA
High Performance Computing Intern *Aug 2018 - December 2019*

- Integrated Georgia Tech supercomputer with Splunk to monitor performance in real-time.
- Performed system administrative maintenance on cluster nodes to ensure functioning computing environment for Georgia Tech community.

Recurse Center New York City, NY
Scholar *May 2018 - Aug 2018*

- Selected as one of 40 programmers to attend a 3 month long coding program in NYC.
- Worked daily to improve programming skills by completing algorithmic exercises and challenges and building collaborative projects.

RESEARCH

Laser Interferometer Gravitational Wave Observatory (LIGO) Atlanta, GA
Undergraduate Researcher under Dr. Laura Cadonati *Dec 2016 - September 2017*

- Modeled instrument noise in the LIGO gravitational wave detector using Bayesian Statistics in order to more accurately detect gravitational waves using Python.

High-Energy Astroparticle Physics - Georgia Tech Atlanta, GA
Research Assistant *Jan 2017 - Dec 2018*

- Characterized and tested high-energy gamma rays photo-detectors for the Cherenkov Telescope Array in Chile.

Institute of Electronics and Nanotechnology - Georgia Tech Atlanta, GA
Intern *Aug 2014 - May 2015*

- Designed and performed electrical tests for Thin Film Transistors to record stress levels in blood and sweat using MATLAB.

SKILLS

Languages: Python, Bash, SQL
Software: Linux, Git/GitHub, Apache Spark/Hadoop, ArcGIS, MS Azure
Hardware: Arduino, Raspberry Pi