CHRISTIAN CHIMEZIE

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SKILLS

`Python` `C++` `Linux` `Bash` `Git` `SQL` `REST` `CI/CD` `AWS` `scikit-learn` `NLTK` `CMake`

EDUCATION

Bachelor of Science in Physics   *Aug 2016 - Aug 2020*
Stony Brook University   Stony Brook, NY
- **Relevant Courses:** Object-Oriented Programming, Computation for Physics and Astronomy, Data Analysis with Python, Electronics and Instrumentation Laboratory

EXPERIENCE

Scientific Software Developer   *May 2019 - Dec 2019*
PSEG Explorations in STEM Fellowship   Stony Brook, NY
- Created an open-source python package for downloading and manipulating astronomical data from the OGLE-IV project.
- Utilized SQL and HDF5 to analyze numerical data from more than 20,000 gravitational microlensing events.
- Made extensive use of numerical computing libraries for number-crunching and data visualization.

Computational Science Researcher   *Nov 2018 - Jun 2019*
NASA Space Grant Fellowship   Stony Brook, NY
- Performed quality assurance testing for OSIRIS, a three-dimensional, relativistic particle-in-cell code for modeling plasma accelerators.
- Modeled classical atomic ionization in the context of plasma formation using analytic and numerical methods.
- Used CMake to compile legacy software and manage the build process.

Scientific Computing Intern   *Jun 2018 - Aug 2018*
Brookhaven National Lab   Upton, NY
- Learned computer science fundamentals and scientific computing methodology under the guidance of a senior technical architect.
- Surveyed a wide variety of topics in pure and applied mathematics and implemented cryptography techniques using C++.

PROJECTS

Akeelo - The Simple Science Search Engine 🔗 (https://akeelo.com)   *Updated Oct 2020*
- Built and deployed an academic literature search engine in the form of a statically generated React-based web application consuming a preexisting Elasticsearch endpoint.