CHRISTIAN CHIMEZIE

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SKILLS

`Python` `Git` `Unix/Linux` `SQL` `JavaScript` `ReactJS` `C++` `AWS` `REST`

PROJECTS

Akeelo - The Simple Science Search Engine 🔗 (akeelo.com)   *Updated June 2020*
- Built and deployed an academic literature search engine taking the form of a React-based web application driven by an Elasticsearch endpoint provided by the Open Science Framework SHARE API.

EDUCATION

Bachelor of Science in Physics   *Aug 2016 - May 2020*
Stony Brook University   Stony Brook, NY
- **Relevant Courses:** Object-Oriented Programming, Computation for Physics and Astronomy, Data Analysis with Python
- **Awards:** NASA Space Grant Fellowship, National Science Foundation LSAMP Scholarship

EXPERIENCE

Research Fellow (Data Analysis)   *May 2019 - Dec 2019*
Public Service Enterprise Group, Inc   Stony Brook, NY
- Created **oglelib**, a Python package for downloading and manipulating astronomical data from the OGLE-IV project accessible through a remote FTP server.
- Constructed a relational database consisting of numerical data from more than 20,000 gravitational microlensing events.

Research Fellow (Computational Physics)   *Nov 2018 - Jun 2019*
National Aeronautics and Space Administration   Stony Brook, NY
- Worked to improve computational models used in OSIRIS plasma physics simulation code.
- Implemented numerical methods for modeling classical atomic ionization using Python.

Database Administrator   *Jun 2016 - Dec 2018*
Scholly, Inc   Remote
- Maintained the backend of a database-driven web application as part of a close-knit group inside a growing startup company.
- Used Python to automate database management and quality assurance resulting in a five-fold decrease in personal workload.

Student Collaborator (Scientific Computing)   *Jun 2018 - Aug 2018*
Brookhaven National Lab   Upton, NY
- Implemented analytic and numerical solutions to problems in advanced math using C++.
- Completed capstone project in topic related to computational science.