CHRISTIAN CHIMEZIE

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SKILLS

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

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
- **Awards:** NASA Space Grant Fellowship, National Science Foundation LSAMP Scholarship

PROJECTS

Akeelo - The Simple Science Search Engine (akeelo.com) *Updated Aug 2020*

- Built and deployed an academic literature search engine taking in the form of a React-based web application that consumes an Elasticsearch endpoint from the OSF SHARE API.

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.

Intern (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.