

# CHRISTIAN CHIMEZIE

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🏠 [hdqrs.co](http://hdqrs.co)

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## SKILLS

Python

Git

Unix/Linux

SQL

JavaScript

ReactJS

C++

Java

AWS

REST

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## PROJECTS

### Akeelo - The Simple Science Search Engine [🔗 \(akeelo.com\)](http://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.

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## EDUCATION

### Bachelor of Science in Physics

Stony Brook University

*Aug 2016 - May 2020*

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

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## EXPERIENCE

### Research Fellow (Data Analysis)

Public Service Enterprise Group, Inc

*May 2019 - Dec 2019*

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)

National Aeronautics and Space Administration

*Nov 2018 - Jun 2019*

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

Scholly, Inc

*Jun 2016 - Dec 2018*

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)

Brookhaven National Lab

*Jun 2018 - Aug 2018*

Upton, NY

- Implemented analytic and numerical solutions to problems in advanced math using C++.
- Completed capstone project in topic related to computational science.