

CHRISTIAN CHIMEZIE

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🏠 <https://chimezie.dev>

SKILLS

C++	Python	Linux	Bash	Git	SQL	NumPy	Matplotlib	CMake	CI/CD	REST
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EDUCATION

Bachelor of Science in Physics

Stony Brook University

Aug 2016 - Aug 2020

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

PSEG Explorations in STEM Fellowship

May 2019 - Dec 2019

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

NASA Space Grant Fellowship

Nov 2018 - Jun 2019

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

Brookhaven National Lab

Jun 2018 - Aug 2018

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 [🔗 \(akeelo.com\)](https://akeelo.com)

Updated Oct 2020

- Built and deployed an academic literature search engine in the form of a web application that consumes a preexisting Elasticsearch endpoint.