

# Alexander Baronsky

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## Education

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**State University of New York (SUNY) at Albany**

Albany, NY

**Bachelor of Science: Physics**

2019 - 2024

**Bachelor of Science: Computer Science**

**Minor: Mathematics**

**Monroe Community College**

Rochester, NY

**Associate of Science: Individual Studies in Science**

2017 - 2019

## Relevant Experience

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**University of Rochester, C.E.K Mees Observatory**

Naples, NY

- Reported tour updates and technical issues to university liaison.
- Supervised tour coordination and operation of 24" refractor telescope included hardware and software systems.
- Observed weather data to ensure safety of technical equipment.
- Presented diverse astronomy topics to tour groups, updated observation documentation and performed opening and closing procedures.

March 2024 - September 2024

**SUNY Albany Capstone Project**

Albany, NY

- Converted prewritten algorithm from Java to Python.
- Integrated and tested functions as plugins in a localized instance of an open-source platform.
- Enhanced analysis and display of geospatial waves in multiple formats.
- Presented in SUNY Albany Showcase at end of project.
- Awarded Best Capstone Project in Computer Science.

January 2024 - May 2024

**SUNY Albany Advanced Laboratory Projects**

Albany, NY

- Bragg X-Ray, recorded diffraction and glancing angles to prove Bragg's Law.
- Speed of Light, reflected lasers and recorded reference phase from oscillator to compare experimental results to actual value.
- Constitution of Restitution, computational analysis of sound recordings to find height of peak and air travel time.

January 2024 - May 2024

## Relevant Coursework

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- Physics: Bayesian Data Analysis and Signal Processing, Classical Mechanics, Electromagnetism, Quantum Mechanics, Thermodynamics.
- Computer Science: Automata and Formal Languages, Assembly Computer Organization, Database Systems, Design and Analysis Algorithm, Operating Systems.

## Skills

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- Programming: Assembly | C | C++ | CSS | HTML | Java | JavaScript | MATLAB | Python | Scheme | SQL
- Operating Systems: Windows | MacOS | Linux
- Microsoft Office: Word | Excel | PowerPoint