

Alexander Baronsky

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Education

State University of New York (SUNY) at Albany

Bachelor of Science: Physics

Bachelor of Science: Computer Science

Minor: Mathematics

Albany, NY

August 2019 - December 2024

Monroe Community College

Associate of Science: Individual Studies in Science

Rochester, NY

August 2017 - May 2019

Relevant Experience

University of Rochester, C.E.K Mees Observatory

Naples, NY

March 2024 - September 2024

- 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.

SUNY Albany, Capstone Project

Albany, NY

January 2024 - May 2024

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

SUNY Albany, Advanced Laboratory Projects

Albany, NY

January 2024 - May 2024

- 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.

Relevant Coursework

- 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

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