

MALACHI SYFRETT
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I am a Physics major, ICT minor at New Mexico State University with a concentration in theoretical physics. My academic focus lies in the study of dynamical systems, field theory, and the mathematical structures underlying physical laws. I'm particularly interested in the intersection of computational methods and theoretical frameworks in both classical and quantum regimes. I also engage in research for observational astrophysics, with recent work involving astrometric analysis.

SKILLS

Programming/IT:

- **Backend Development:** Python; C; x86_64, ARM, RISC-V, Assembly/Machine Code
- **Data Analysis:** SQL; Pandas; NumPy
- **Operating Systems:** Windows XP–Windows 11; Linux (Debian, Arch, Fedora, Alpine)
- **Microcontrollers:** Raspberry Pi, Arduino
- **Software:** VSCode, Docker, VMware, VirtualBox, Hyper-V, Office
- **Certifications:** None at this time, but prepared to take:
 - A+
 - Linux+
 - Security+
 - CEH

Science:

- **Physics:** College Major at NMSU, working on BS with accelerated Dual Degree path for BS/MS
- **Astronomy:** I have done work in the astronomy field in reference to building data analysis tools, and recording of observations for astronomical objects such as binary star systems.

PROFESSIONAL EXPERIENCE

Teaching and Information Management

Santa Fe Community College | Santa Fe, NM | September 2023 – May 2025

- Worked as a Teacher's Assistant for Robert Shankin in the Sciences Health Engineering and Math Administration Department.
- Main duties included grading papers for various math courses, from Algebra to Calculus III.
- I also worked to help answer student's questions on course material including providing textbook references, online tutorials, and step-by-step examples as needed to support students.
- Classes that traditionally had a 66% drop in students over the course of the semester, was reduced by 50% due to my support and guidance.

Guest Service and Public Relations

Albertson's Market #681 | Alamogordo, NM | October 2023 – April 2025

- Worked in the StreetSide E-Commerce Department handling online orders for the local area.
 - Main duties included being a personal shopper for online orders and managing out of stock items with proper substitutions as required. I also helped guests who were unhappy with their orders from mistakes or problems with technology.
 - I also stepped into a management role—with assistance from higher level directors—due to the absence of our official manager and kept the department running smoothly despite many challenges.
 - During my time in the management role, sales for my department increased by 50% by order number, and the department remained one of the higher rated stores in the region.
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EDUCATION

Santa Fe Community College, Santa Fe, NM

- Graduation May 2025
- Degree Program: Physical Science, AS
- GPA: 3.95 (pending official graduation)

New Mexico State University, Las Cruces, NM

- Graduation: (expected) May 2027
 - Degree Program: Physics MS
 - Minor: ICT
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PUBLICATIONS

Syfrett et al. "Comparative Analysis of Two Astrometric Measuring Methods on Five Known Binaries." Journal of Double Star Observations, Pending Publication, 2025

PERSONAL PROJECTS

CREATE: Customizable RISC Environment for Adaptable Task Execution

- Custom processor architecture designed for integration into dedicated processors (GPU, NPU, DPU) to enable faster operations while maintaining system performance. Design not published.
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ADDITIONAL INFORMATION

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References: Available upon request.
