



JOHN FRANCIS

ASPIRING MEDICAL PHYSICIST

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Education

BACHELORS OF SCIENCE - PHYSICS, MATHEMATICAL EMPHASIS

BYU - Idaho

Sep 2020 - (Projected) Apr 2024

3.0 GPA

COMPUTER PROGRAMMING CERTIFICATE

BYU - Idaho

Awarded Sep 2023

Experience

GEANT4 MODELING AND RADIATION THERAPY RESEARCH

BYU - Idaho

May 2023 - Present

- Shadowed various medical physicists to learn about radiation therapy
- Created models in Geant4 to simulate the generation and effect of clinical radiation
- Mastered C++ and the engineering of Geant4 and Root physics modeling toolkits

CODE DEVELOPMENT LEAD - XRD RESEARCH TEAM

BYU - Idaho

Dec 2022 - Jan 2023

- Operated and tested an X-Ray diffraction machine to classify various crystal structures
- Led and managed the team GitHub account, ensuring organized storage of data and code for efficient collaboration.

Skills

- Object Oriented Programming (C++, C#, Python, JS, TS, Geant4)
- Software Engineering (Frontend and Backend development, nodeJS, Docker, Git)