

Jessie Sheflin

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Education

BACHELORS OF SCIENCE | IN PROGRESS (EXPECTED: JUNE 2025) | NORTHWESTERN UNIVERSITY

- Major: Biomedical Engineering
- 3.9 Major GPA

MASTERS OF SCIENCE | IN PROGRESS (EXPECTED: JUNE 2025) | NORTHWESTERN UNIVERSITY

- Major: Computer Science

HS DIPLOMA | MAY 2021 | POUVRE HIGH SCHOOL

- Graduated Valedictorian, 4.4 GPA
- Earned IB Diploma with District Seal of Biliteracy (Spanish)

Experience

RESEARCH ASSISTANT (VOLUNTEER) | NORTHWESTERN DEPARTMENT OF ELECTRICAL ENGINEERING | 2023 -

- Coding and computational data analysis using linear algebra and machine learning (FastAI)
- Finite element analysis
- Independent research and presentation of results

LAB TECHNICIAN | NORTHWESTERN DEPARTMENT OF LIFE SCIENCES | 2021-

- Completed data entry, statistical analysis, and data visualization independently
- Completed protein purification, cell competency, and gel electrophoresis
- Trained and supervised other work-study and volunteer students joining the lab

LAB TECHNICIAN | COLORADO STATE UNIVERSITY | 2020

- Culture and assays of HT29 cells
- Protein processing and proteomics of different potato strains

Skills & Abilities

COMPUTER PROGRAMMING | LANGUAGES: PYTHON, C, C++, RACKET, JAVASCRIPT, R, x86 ASM. INCLUDES STRONG UNIX SKILLS

CREATING STATISTICAL VISUALIZATIONS IN GRAPHPAD AND PYTHON

COMPUTATIONAL GENOMICS USING STAR RSEM AND IGV

CIRCUIT DESIGN AND MICROCONTROLLER PROGRAMMING

MACHINE LEARNING IN BIOLOGICAL CONTEXTS