



A course resume showcases the skills students gain in a PLTW course. Each resume outlines the computational skills, analytical skills, and knowledge students acquire in the course. Course resumes also detail student experience with tools, software, lab work, and engineering design. The skills listed in course resumes illustrate the immediate, applicable contributions that students can make within a workplace.

Creative Problem-Solving

- Narrative Design
- Storyboarding
- Iterative testing
- Creative Expression
- Agile project development

Computational Thinking Practices

- Data collection and processing
- Abstraction
- Computing Innovations

Principles of Artificial Intelligence

- Understand the evolution of AI, capabilities, and ethical implications
- Apply data collection and cleaning techniques to prepare data for AI modeling and machine learning
- Explore biases and fairness in data and algorithms
- Create solutions using prompt engineering
- Contribute to an inclusive, safe, collaborative, and ethical computing culture

Interpretation of Documentation

- Perform data analysis and create visualizations
- Use software to display, analyze, and clean data
- Explore data models and simulations
- Explore a variety of data sources and formats (text, sound, image, sensor data, large datasets)

Tools and Software

- Large Language Models (LLM)
- AI agents and chatbots
- Data visualization tools
- Sensors for data collection
- Google's Teachable Machine

Professional Skills

- Presentation/communication
- Documentation
- Teamwork and collaboration
- Ethical reasoning