

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

Program Design and Development

- Create programs using procedural, event-driven, and object-oriented programming paradigms
- Design a user interface (UI) based on human-computer interaction (HCI) principles
- Debug and test code
- Create annotated programs with in-code commenting and documentation
- Use top-down and bottom-up design approaches
- Prototyping

Interpretation of Documentation

- Use application programming interfaces (APIs)
- Determine the existence of code libraries that can solve sub-problems within an app's design and incorporate them as appropriate

Programming Languages

- Java®
- XML

Tools and Software

- Android™ Studio
- BlueJ
- Backendless

Professional Skills

- Pair Programming
- Agile Project Development/Scrum
- Accountability to a team
- Collaboration on design and implementation
- Presentation/Communication
- Public Speaking
- Ethics
- Cybersecurity Best Practices

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