

# Preston J. Smith

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## EDUCATION

Allegheny College | *Meadville, PA*

**Bachelor of Science in Software Engineering**

Minor: Art, Science and Innovation

**Awards**

Dean's List Spring 2024 & Fall 2024

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**Expected Graduation: May 2026**

**Major GPA: 3.800/4.00**

**GPA: 3.402/4.000**

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## TECHNICAL SKILLS

**Programming Languages:** Python, Rust, HTML, CSS, Java and Javascript

**Skills:** Unit Testing, Cybersecurity, Artificial Intelligence, Software Reliability Analysis, Linux, Windows, Apache Maven, Git and Github, Adobe Suite, Microsoft Suite

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## RELEVANT COURSEWORK

**Junior Seminar** | Computer Science Department, Allegheny College

**January 2025 - May 2025**

- Researched reliability modeling regarding log data.
- Developed and tested a program to track and analyze Apache logs with differing reliability models.
- Analyzed the accuracy and performance of the Schniedewind Model when changing how much data a point represents.

**Cybersecurity** | Computer Science Department, Allegheny College

**August 2024 - December 2024**

- Researched and examined Cybersecurity concepts - cryptography, hashing, and end-to-end encryption.
- Developed a Rust program imitating a password storage system using public key encryption and the password hashing algorithm argon-2.
- Examined the system's reliability through test cases and fuzzing while tracking the total coverage of the tests.

**Artificial Intelligence** | Computer Science Department, Allegheny College

**August 2024 - December 2024**

- Worked extensively with Python to parse and sort data.
- Used data to generate a baseball world series using Markov chains.
- Wrote programs using algorithms, e.g., A\* and Greedy search for pathfinding in a game.
- Used the Q-learning model to play the game Snake.

**Software Engineering** | Computer Science Department, Allegheny College

**August 2023 - December 2023**

- Developed Chasten, a Python program using XPath expressions to identify patterns in AST of Python code.
  - Improved the program's unit testing and created a tool that leverages LLMs to generate XPath expressions from natural language queries.
  - Led three class discussions on the importance of debugging, code coverage, and industry-standard coding practices within the Python language.
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## LEADERSHIP

**Ultimate Frisbee Club** | Allegheny College

**August 2022 - Present**

**Treasurer**

**August 2024 - Present**

- Oversee Club budget and expenses and request reimbursement from the student government.
  - Track club spending and activities using Excel.
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## GENERAL WORK EXPERIENCE

**Kennywood Ride Operator Palace Entertainment, Pittsburgh, PA**

**Summers 2020 - 2024**

- Promoted to ride operations trainer due to successful performance in former role as Kennywood Ride Operator.
- Worked in a team to safely operate twenty amusement rides according to IROC standards.
- Provided an engaging customer experience and assisted with customer questions and concerns.
- Trained new employees to operate rides safely and according to industry standards.

**100 Black Men in partnership with Carnegie Mellon University**

**Summer 2019**

**Credit Power LLC Intern**

- Organized and managed the transfer process of client information into a new system.
- Updated client information as needed.
- Completed the entire transfer of client data during a six-week internship experience.