

EDUCATION

California Polytechnic State University (Cal Poly), San Luis Obispo, CA | May 2029

Bachelor of Science in Software Engineering

Coursework: Data Structures, Computer Organization, Object-Oriented Programming & Design, Systems Programming, Discrete Structures

Recruited Athlete, Cal Poly Swim Team

Arapahoe High School, Centennial, CO | May 2025

GPA: 4.0 (Unweighted), 4.37 (Weighted), Class Rank: 4/417

PROJECTS

Lumberjack Fairy Simulation (Java), Jan 2026 – Feb 2026

- Refactored legacy code into a scalable object-oriented architecture enabling complex entity interactions and behavior modeling
- Designed and implemented 2D simulation logic with extensible class hierarchies and polymorphic behaviors
- Developed and executed comprehensive unit tests to ensure reliability and maintainability

Personal Portfolio Website (Antigravity, AWS Amplify, Custom Domain), <https://annikayaworski.com>

- Designed and developed a personal portfolio website to showcase technical projects, experience, and achievements
- Built using Antigravity framework with a focus on clean UI/UX and responsive design
- Using Route 53 configured custom domain to establish a professional online presence

Graph Algorithms & Data Structures Library (Python)

- Implemented array-based Stack and Queue ADTs with constant-time core operations
- Built a graph library with adjacency-list storage, DFS-based connected components, and BFS-based bipartite checking
- Designed modular classes with Python dataclasses and type hints for readability and maintainability
- Created unit tests covering boundary cases, correctness, and large-input performance behavior

LEADERSHIP EXPERIENCE

Arapahoe High School Athletics & Leadership, Centennial, CO | NHS President | Varsity Swim Captain (2021 – 2025)

- Led 200+ member National Honor Society chapter, organizing community initiatives including food drives and outreach programs
- Captained varsity swim team of 75 athletes; set 3 all-time team records (100 fly, 100 back, 200 medley relay)
- Recognized as All American Athlete
- Balanced 20+ hours/week of training with academic and leadership commitments

Homestead Farm II Barracudas, Centennial, CO | Swim Coach | Summers 2021 – 2024

- Coached and mentored 30+ swimmers ages 13–18, improving technique and competitive performance
- Organized practices and coordinated meet logistics with parents and other coaches
- Promoted to Head Age Group Coach based on performance and leadership

Private Family, Centennial, CO | Nanny | Summers 2021 – 2025

- Managed daily schedules, transportation, and educational activities for two children
- Demonstrated strong reliability, problem-solving, and independent decision-making in fast-paced environments

Club Swim Team Experience, Centennial, CO | Denver Swim Academy | 2015 – 2025

- Competed at a high level in club swimming

SKILLS

Programming: Java, Python, RISC-V Assembly, C

Tools & Technologies: Git, GitHub, IntelliJ, PyCharm, Unix/Linux, Tkinter, Antigravity, VS Code

Cloud & Web: AWS, Route 53, DNS Configuration

AI Tools: GitHub Copilot, ChatGPT, Gemini

ACTIVITIES

Member, Alpha Phi Sorority - philanthropy and chapter engagement

Women in Software & Hardware (WISH) - professional development, technical networking, and mentorship