

## EDUCATION

Allegheny College  
Bachelor of Science in Software Engineering  
Minor: Psychology  
Honors: Alden Scholar, Trustee Scholar (Academic Excellence Awards)

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## TECHNICAL SKILLS

Languages: Python, JavaScript, C++, SQL, R, Java, VBA  
Skills: Web Development, AI/ML, Data Analysis, Unit Testing, SDLC, Linux, Windows

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## EXPERIENCE

- Post Processing Intern | Acutec Precision Aerospace, Meadville, PA Summer 2024
- Automated packaging configurations for 12,000+ SKUs, saving 1,000+ hours annually.
  - Developed Excel macros that reduced reporting workload by 20 hours per week.
- Software Developer | Computer and Information Science Department, Allegheny College August 2023 - May 2024
- Developed Chasten, a Python-based static analysis tool that uses XPath expressions to detect AST patterns, enabling custom linting rules without complex frameworks or imprecise regex.
  - Led the integration of LLMs for natural language-to-XPath query conversion, optimizing development time.
- IT Technician | Information Technology, Allegheny College August 2023 - Present
- Delivered prompt and effective solutions for 1,000+ students, ensuring optimal IT functionality.
  - Conducted a comprehensive network audit, identifying and troubleshooting connectivity issues to ensure a secure and reliable network for students and faculty.
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## INDEPENDENT PROJECTS

- Pseudo: Simulation of Omni-Model Behavior August 2024 - May 2025
- Senior thesis project: developing a tool that mimics omni-model behavior by integrating diverse APIs..
  - Built on APICenter, a framework that standardizes API interactions, reducing boilerplate code and optimizing development.
- Autonomous Drone Pathfinding & Collision Avoidance January 2025 - May 2025
- Developing an autonomous drone navigation system using simulated LiDAR in Unreal Engine 5.
  - Implementing reinforcement learning and genetic algorithms for efficient pathfinding and real-time collision avoidance.
- Typewriter Piano: Multisensory Interaction Design Summer 2024
- Research project accepted at National Conference on Undergraduate Research (NCUR) 2025, merging audio, visual, and interactive elements into an art installation.
  - Collaborated with peers to design and execute a cohesive, interactive multisensory experience.
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## LEADERSHIP & INVOLVEMENT

- Secretary | ACM Allegheny College Student Chapter September 2024 - May 2025
- Co-founded the ACM chapter to foster student collaboration in software development and hands-on learning.
  - Organized Allegheny College's first-ever hackathon and hosted workshops bridging academic concepts with real-world software development.
- Data Science Mentor | Computer and Information Science Department, Allegheny College September 2024 - May 2025
- Mentored students in data science through hands-on learning experiences and interactive workshops.
  - Developed an educational website as an online resource for learning data science, featuring structured lessons and practical applications.
- Teaching Assistant | Computer and Information Science Department, Allegheny College August 2023 - May 2025
- Mentored 40+ students, enhancing their programming skills and academic performance.
  - Conducted weekly office hours, offering personalized tutoring and support.