

Elias Wilson

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SUMMARY

Computer Science student preparing for **AI software engineering** work through supervised projects involving enterprise software, industrial automation, and engineering workflows. Built AI enabled prototypes with Python, LLM prompting, **Azure AI Services**, automated testing, and structured evaluation. Developed React and TypeScript interfaces, Node services, containerized Python applications, and Git based delivery workflows. Applied agile methodology, **test driven development**, system design, **configuration management**, code review, and CI/CD checks across team projects. Explored generative AI, AI agents, prompt engineering, GitHub Copilot, Microsoft Copilot, cloud native applications, PLC concepts, and manufacturing software. Expected to graduate in May 2028 and available for a full time summer 2027 internship. Brings curiosity, careful evaluation, and collaborative project habits that can support reliable AI software development.

EDUCATION

Bachelor's Degree in Computer Science
University of Wisconsin Madison GPA: 0
Coursework: Software design, artificial intelligence, agile methodology, automated testing

2028
Madison, WI

TECHNICAL SKILLS

- **Programming Languages:** Python, TypeScript, JavaScript
- **Web Frameworks:** React, Angular, Node
- **Artificial Intelligence:** Generative AI, LLMs, AI agents
- **Azure AI Services:** Azure AI Services, Azure AI Fundamentals, Microsoft Copilot
- **Development Assistants:** GitHub Copilot, Microsoft Copilot, prompt engineering
- **Source Control:** Git, GitHub, pull requests
- **Testing Tools:** Automated testing, unit testing, integration testing
- **Delivery Practices:** CI/CD, build automation, release validation
- **Software Methods:** Agile methodology, test driven development, software life cycle
- **Cloud Applications:** Cloud native technologies, containerization, configuration management
- **Industrial Software:** Industrial automation, PLC concepts, manufacturing technology
- **Engineering Design:** System design, service integration, API testing

SKILLS

- | | | | |
|--------------|----------------------|---------------------------|-------------------|
| • Python | • LLMs | • GitHub Copilot | • Test automation |
| • TypeScript | • AI agents | • Microsoft Copilot | • System design |
| • React | • Prompt engineering | • Agile methodology | • CI/CD |
| • Node | • Azure AI Services | • Test driven development | |

EXPERIENCE

AI Software Engineering Project Contributor
University Project
Supported a supervised university project focused on AI assisted code review for classroom applications. Contributed across design, implementation, testing, evaluation, documentation, and presentation within a four student team.

- Built **Python** code review prototype with LLM prompts and **Azure AI Services** for quality checks
- Created structured service responses that grouped findings into consistent categories for instructor evaluation
- Added automated tests for prompt inputs, response parsing, and service behavior across edge cases
- Managed **Git** pull requests and **CI/CD** checks within a reproducible four student team workflow
- Compared prototype findings with review cases and refined prompts after missed quality criteria
- Presented architecture, limitations, test results, and responsible use considerations to course audiences

January 2026 - Present
Madison, WI

Industrial Automation Software Project Contributor
Student Innovation Lab
Contributed to a supervised industrial automation lab project connecting a React and TypeScript dashboard with a Node service. Supported interface development, event handling, testing, documentation, agile planning, and faculty reviews.

- Developed **React** and **TypeScript** dashboard displaying simulated equipment states and alerts from PLC data
- Connected **Node** service that normalized simulated machine events for reliable dashboard display and testing

September 2025 - December 2025
Madison, WI

- Wrote unit and integration tests for event handling, status rendering, and service responses
- Documented **system design**, configuration steps, test cases, and known limitations for reproducibility
- Used **agile** planning to divide requirements into short increments reviewed with a faculty mentor
- Demonstrated prototype and captured peer feedback about usability, event clarity, and automation features

Cloud Native Software Delivery Project Contributor

January 2025 - May 2025

Course Project

Madison, WI

Built a supervised course project focused on repeatable cloud native delivery for a containerized Python service. Practiced **configuration management**, automated validation, documentation, and software development life cycle communication.

- Created containerized Python service supporting repeatable configuration for modern software delivery coursework
- Established Git workflow with automated build and test steps before proposed changes reached merge
- Used **GitHub Copilot** under instructor guidance while reviewing suggestions against course requirements
- Added automated API tests and configuration checks that caught invalid inputs and deployment errors
- Maintained build instructions, dependency documentation, and release notes for clean environment recreation
- Delivered demonstration explaining software life cycle, build pipeline, testing approach, and implementation tradeoffs

PROJECTS

AI Assisted Quality Review Prototype 📅 2026

Created a supervised prototype using Python, LLM prompting, and Azure AI Services to examine software quality and security findings. Structured outputs, automated tests, evaluation cases, and responsible use discussion made results easier to review.

PLC Equipment Monitoring Dashboard 📅 2025

Built a React and TypeScript interface with a Node service for simulated industrial equipment events. Testing, documentation, and peer feedback shaped clearer status displays and practical automation ideas.

LEADERSHIP & AWARDS

- Dean's List recognition, University of Wisconsin Madison, 2025
- Undergraduate Project Showcase Honorable Mention, 2026
- Peer Mentor, Computer Science Learning Center, 2026 to Present

CERTIFICATIONS

- Microsoft Learn Azure AI Fundamentals Learning Path 📅 2026
- Coursera Generative AI for Software Development 📅 2026

PROFESSIONAL AFFILIATIONS

- Student Software Builders Group member since 2025
- Computer Science Learning Center peer mentor since 2026

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST