Nicholas Ingerson

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EDUCATION

Allegheny College**,** Meadville, PA 2025

BS Computer Science, Minor in Communications

- Philanthropy chairman of the Pennsylvania Delta Chapter of the Phi Delta Theta Fraternity

EMPLOYMENT

Allegheny College, Meadville, PA August 2023 – Present

Technical Leader, Department of Computer & Information Science

- Mentoring 30-40 computer science students through advanced courses.
- Collaborating with professors to enhance coursework and optimize class structures.

City of Meadville, Meadville, PA May 2023 – August 2023

Data Collection (Intern)

- Conducted comprehensive data collection initiatives focused on evaluating the physical conditions of diverse buildings within Meadville, employing a meticulous street-level perspective.
- Implemented a systematic approach to evaluate the resilience of structures, identifying vulnerabilities and strengths to contribute valuable insights to the overall understanding of the city's built environment.

SOFTWARE PROJECTS

Personal Website: *https://nicholasingerson.netlify.app/* (for additional information and projects)

Password Generator/Manager

- Engineered a dynamic password generator capable of producing secure passwords, with customizable options for including special characters based on user preferences.
- Implemented user-friendly features, allowing individuals to easily generate unique and complex passwords tailored to their security requirements.

YouTube Video Downloader

- Leveraged the pytube library to enable efficient access to YouTube videos, ensuring a reliable and up-to-date method for video retrieval.
- Prioritized ease of use by designing an intuitive system that minimizes the complexities associated with video downloading, catering to both novice and experienced users.
- Documented the project comprehensively, including clear setup instructions, usage guidelines, and any dependencies required for seamless deployment.

CLI-Based Banking System

- Utilized object-oriented programming in Python to encapsulate account information, streamlining data management and ensuring a modular and scalable system architecture.
- Enabled users to perform a range of transactions, including deposits, withdrawals, and balance inquiries, providing a comprehensive suite of banking functionalities within the command line environment.
- Prioritized code readability and documentation, offering comprehensive insights into the system's structure, functions, and usage to facilitate easy understanding and potential collaboration.

Temperature Probe Reflex Agent

- Integrated Arduino and a precision temperature sensor to develop a reliable and accurate temperature monitoring system.
- Implemented a reflex agent that intelligently detects temperature variations, providing real-time alerts through an LED module.

SKILLS

Software: (*proficient)*: Python, Linux, Docker, VSCode, Git *(familiar)*: HTML/CSS, JavaScript