Jonas Hemmett

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Education

University of Vermont - B.S. Computer Science, Minor in Pure Mathematics   2022 - Expected 2026

Relevant Courses: Data Structures & Algorithms; Intro Artificial Intelligence; Discrete Structures; Computability & Complexity; Computer Programming I, II, III; Computer Organization; Intro to Web Dev; Algorithm Design & Analysis; Calculus I, II, III; Linear Algebra; Statistics for Engineering

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Technical Skills

Programming Languages: Python, C++, HTML, CSS

Software: Onshape, SketchUp, Inkscape, CorelDRAW, Git, Windows OS, Google Sheets

Hardware: Laser cutting, Raspberry Pi microelectronics, PC building

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Relevant Projects

Personal Website (JHemmett.com)
- Built a personal website from the ground up using HTML, CSS, and basic JavaScript

Blackjack Bot   Fall 2025
- Developed a Raspberry Pi based blackjack bot that won 2nd place at the 2025 UVM CS Fair
- Integrated micro-electronics (Screen, camera, buttons)
- Used Pillow to build a UI
- Designed and laser cut a custom acrylic housing
- Used the OpenAI API to extract card information from an image of the table
- Built a game engine allowing for games to be played entirely on the device
- Created a website (jhemmett.w3.uvm.edu/Blackjack_Bot) to document and showcase it
- GitHub repository: github.com/Jonas-Hemmett/Blackjack_Bot

POS System   Fall 2025
- Created a point of sale system to test memory storage methods
- Dynamically reads and writes objects from memory to JSON save files, limiting the memory usage and allowing for information to be tracked between runs.
- GitHub repository: github.com/jonasgordonhemmett-tech/Point_of_Sale_System

Uses CAD to create mechanical projects   2019 - Present
- Created a functional combination lock model showcasing the usually hidden inner workings.
- Created mechanical business card with a sliding mechanism that reveals a hidden QR code

Designs and produces handmade leather goods   2024 - Present
- Uses CAD for pattern drafting
- Sells goods locally at Champlain Leathers and online on Etsy

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Work Experience

ReSource, Williston VT   2023 - Present
- Specializes in testing and performing minor repairs on donated small appliances
- Received several awards for getting the highest number of round-ups at checkout

Hannaford, Williston VT   2021 - 2023
- Worked both front end and produce positions