

# **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](http://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](http://jhemmett.w3.uvm.edu/Blackjack_Bot)) to document and showcase it
- GitHub repository: [github.com/Jonas-Hemmett/Blackjack\\_Bot](https://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](https://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