Jonas Hemmett

Contact

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Education

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

Relevant Courses: Data Structures & Algorithms; Intro Artificial intelligence; Discrete Structures; Computability & Complexity; Computer Programming I (Python), Computer Programming II (Java), Computer Programming III (C++); Computer Organization (Ras Pi); Intro to Web Site Development; Algorithm Design & Analysis; Pre-Calculus Mathematics; Fundamentals of Calculus I, Calculus I, Calculus II, Calculus III; Linear Algebra; Statistics for Engineering

Technical Skills

- **Programming Languages:** Python, C++, HTML, CSS, Java
- **Software:** Onshape, Sketchup, Inkscape, CorelDRAW (for laser cutting)

Relevant Projects

Developed a Raspberry Pi blackjack bot that participates in real world games

- Project won 2nd place at the 2025 UVM CS Fair
- Integrated micro-electronics (Screen, camera, buttons) for easy user input
- Used Pillow to design a user interface
- Designed and produced a lasercut housing allowing for optimal camera and screen positioning
- Used the OpenAI API to extract card information from an image of the table
- Tracked optimal moves for different hand combinations using basic strategy and card counting
- Built a game engine from the ground up allowing for games to be played entirely on the device, allowing for both single player games and automated testing across thousands of games
- Created a website (jhemmett.w3.uvm.edu/Blackjack_Bot) to document and showcase it
- GitHub repository: github.com/Jonas-Hemmett/Blackjack_Bot

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

Builds small scale mechanical projects

- Designed and produced a functional combination lock model showcasing the usually hidden inner workings.
- Designed mechanical business card with a sliding mechanism that reveals a hidden QR code
- Used CAD to design a geometric font which could be easily stenciled

Designs and produces handmade leather goods

- Using CAD for pattern drafting
- Works with Champlain Leather locally to sell and market goods
- Uses Etsy for ecommerce sales

Work Experience

ReSource, Williston VT

- July 2023 - Present
- Specializes in testing and performing minor repairs on donated small appliances and designs basic signage/pricing chart
- Received several weekly awards for getting the highest number of customer donation round-ups at checkout

Hannaford Supermarket, Williston VT

- Produce Associate: July 2022 - July 2023
- Front End Associate: January 2021 - June 2022

Extracurricular Activities

- UVM Art Club
- UVM Chess Club
- Weight Lifting and Running: focusing on consistency, endurance, and personal goals
- Robotics Team Captain - Champlain Valley Union High School - 9/18 - 6/22