James Vallery

Bachelors Computer Science Student

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Motivated Computer Science student with a strong foundation in data structures, full stack applications, and low-level computer systems. Seeking summer 2026 to apply technical expertise, problem-solving skills, and teamwork experience to contribute to cutting-edge engineering projects.

Experience

May 2025 - Current
Verdify Project (Greenhouse management app)

Developed a full stack web app for managing greenhouse operations at a granular level, including crop tracking, climate monitoring, and user login.

- Built with Python (Fast API), SQLModel, and **JSON** for scalable backend data management.

- Demonstrated real-world application of full stack development, scalability, **system design**, and **structured data integration**.

- Designed a user-friendly interface for controlling greenhouse variables and monitoring historical crop data

Mar 2025 - Aug 2025
Golf Operations | Boulder Country Club, Boulder

- **Collaborated in a fast-paced team environment** to support daily operations.

- Delivered professional, high-quality service to members.

- **Adapted quickly to new responsibilities with attention to detail** and reliability.

Education

2024 - Present

Bachelor of Computer Science

University of Colorado Boulder

Skills

- C++ Python
- Team Collaboration
- Personability
- Computer Systems design
- Full Stack Development and Design

Contact

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Knowledge

Low Level Computer Systems, Data Structures, C / C++

- Proficient in **binary number systems**, bitwise operations, and two's complement representation, with experience applying these concepts in problem solving and coursework.

- Familiar with **Linux systems** and **Bash scripting** for automating tasks, managing files, and streamlining development workflows in a Linux environment.

- Implemented advanced **C++ algorithms**, and **data structures** such as trees, hash maps, linked lists and traversal