Justin Sorrells

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EDUCATION

University of Colorado Boulder | Boulder, CO

B.S. in Computer Science | GPA: 3.959/4.0

- **Courses:** Computer Systems, Operating Systems, Network Systems, Algorithms & Analysis, Data Science I, Computational Theory, Principles of Programming Languages, Software Development and Tools, Numerical Computation

TECHNICAL SKILLS

Languages (ordered by proficiency): Python (NumPy, Pandas, Matplotlib), C, Bash, JavaScript, Java
Tools and Frameworks: Selenium, Node.js, React.js, Docker, Scikit-learn, PyTorch, SQL/SQLite, Redis, MongoDb, Git

RELEVANT EXPERIENCE

CU Boulder Department of Computer Science | Boulder, CO **Jan. 2026 - Present**

Undergraduate Teaching Assistant - Operating Systems

- Hosted up to 10 office hours per week to help students understand the Operating Systems course material and programming assignments.
- Created demo programs in C and test scripts in Python to help students understand the requirements of the programming assignments through hands-on demos.
- Conveyed programming requirements, conducted code reviews, and helped create design documents alongside students so they could be successful in their programming assignments.

CU Boulder Department of Computer Science | Boulder, CO **August 2025 - Dec. 2025**

Undergraduate Teaching Assistant - Algorithms

- Hosted up to 10 office hours per week to help students understand Algorithms course material.
- Demonstrated and proved correctness of a variety of recursive, dynamic programming, greedy, and graph algorithms to groups of students.
- Collaborated with students to derive algorithms to solve interesting problems then prove their correctness and time complexities.

PROJECTS

PredictivePager | *Operating Systems* **Nov. 2025**

- Developed a top scoring predictive paging algorithm in C to predict the subsequent pages that a program may request.
- Implemented a learning DFA in C which was traversed by a modified Breadth-First Search. After accounting for simulation resources, this approach led to the highest performing algorithm.

CrumblRanker | *Personal Project* **May 2023**

- Created a web application using Django that would scrape the CrumblCookie homepage weekly using beautiful soup, add unseen cookies to a SQLite database that stored their names, descriptions, and images, and then displayed the cookies on a web page in a default sorted order by most likes to least likes.
- Implemented account creation and user authentication so that users could create accounts, login, vote on cookies, comment on cookies, and reply to each other's comments.