

# NATHAN MEGERSA

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CS student seeking SWE Internships. Built a full stack project with Python (FastAPI), Node.js, SQL, and Docker by designing APIs, data models, and dashboards. Strong in debugging, data structures, and writing clear documentation. Comfortable with Git workflows and Agile teamwork. Ready to be apart of a team driven by passion and purpose.

## EDUCATION

### University of Colorado Boulder

Expected May 2028

B.S. Computer Science, Minor: Computer Engineering

GPA: 3.447 / 4.00

Relevant Coursework: Data Structures, Algorithms, Discrete Math, Computer Systems, Software Development, Databases

## SKILLS

**Languages:** Python, JavaScript, C/C++, SQL

**Backend:** PostgreSQL, MySQL, FastAPI, Node.js, REST APIs, JSON

**Tools:** Git/GitHub (PRs, branching), GitHub Projects, Docker, Postman, Mocha/Chai, VS Code

**Concepts:** Data Structures, Algorithms, OOP, Client/Server, Testing, Debugging, SDLC, Agile (Scrum)

**Certifications:** CompTIA ITF+

**Soft Skills:** Communication, cross-team collaboration, ownership, problem solving, time management

## PROJECTS

### Systems-Monitor (Full-stack, Python, Node.js, PostgreSQL, Docker, Chart.js)

GitHub

- Engineered a Docker Compose stack to ingest CPU/memory/disk metrics every 5s into PostgreSQL, using .env-driven configuration (host/port/credentials/interval) to run cleanly across machines.
- Implemented 3 FastAPI REST endpoints (/api/health, /api/latest, /api/range) and integrated a Node.js dashboard with 3 charts (CPU/memory/disk), including auto-refresh “Latest” and date-range filtering.
- Authored PostgreSQL queries with time-window filtering and timestamp ordering to feed dashboard charts. Enabled real-time “Latest” monitoring and historical CPU/memory/disk trend comparisons for debugging and performance investigations.

### Personal Portfolio Website (React, Tailwind, EmailJS, Jamendo API)

Vercel — GitHub

- Built and deployed a responsive React + Tailwind portfolio with reusable components, mobile-first UI, and clean navigation.
- Integrated EmailJS contact form with input validation and clear success/error feedback to improve reliability and UX.
- Added a Jamendo API “Song of the Day” with play/pause controls, loading states, and error handling for stability.

### The Lion King Board Game (C++, OOP)

GitHub

- Built a 500+ line turn-based C++ game using OOP, modular classes, and file I/O persistence for save/load game state.

## EXPERIENCE

### STEM Intern | Project: Return to Work, Inc. — Boulder, CO

June – August 2025

- Optimized Microsoft 365 documentation workflows to improve clarity and consistency across two weekly reports.
- Organized and executed outreach campaigns across LinkedIn by creating press releases and tracking performance. Drove a 20% increase in engagement and contributed to stronger program visibility and audience reach.
- Coordinated across 3 teams to streamline project tracking and support on-time delivery of key initiatives.

### Lead Retail Store Operations Associate | Big Lots — Aurora, CO

September 2023 – June 2024

- Headed front-end store operations by supporting cashiers, resolving customer issues, and maintaining fast, accurate checkout flow. Drove a 20% increase in monthly rewards program enrollments through consistent customer engagement.
- Managed inventory processes, reducing out-of-stock items by 15% through strategic restocking and organization.

## LEADERSHIP

### Soccer Referee, Soccer City Aurora

- Officiated weekly K-5 matches across 10+ schools, overseeing game flow and ensuring fairness, sportsmanship, and teamwork.

### Church Youth Leader, Jubilee Evangelical Church

- Led weekly Bible lessons for 15+ youth (ages 3-7) and facilitated community volunteer events to support families in need.

## ACTIVITIES

### CABPES - MEP & JETS

- Completed CABPES Math Enrichment & JETS; built engineering projects and strengthened math skills/fundamentals.

### NSBE Member

- Participated in NSBE workshops, technical talks, and on-campus networking events with engineers, alumni, and recruiters.

### HackCU 11 Participant

- Collaborated in CU Boulder’s flagship 24-hour hackathon, attempting to build a working prototype under tight deadlines.

### Volunteering

- Supported families and youth in need through YouthRoots; Food Bank of the Rockies; A Precious Child; Iron Sharp.

## HONORS & INTERESTS

**Honors:** Dean’s List (Fall 2024, Spring 2025), CABPES JETS Award (2023)

**Interests:** AI, Game Development, Emerging Tech, Fitness, Nature/Travel, Community Service, Sports