

# NATHAN MEGERSA

linkedin.com/in/nathan-megersa-aco   github.com/nmegersa   nathan-portfolio-smoky.vercel.app

Aurora, CO   720-882-3256   name6562@colorado.edu

*CS student seeking Software Engineering Intern roles. Build and test software in Python and C++ with strong DSA/OOP fundamentals. Created Dockerized API + database systems with monitoring dashboards, and enjoy debugging, automation scripting, and collaborating across teams to ship reliable software.*

## EDUCATION

### University of Colorado Boulder

Expected May 2028

B.S. Computer Science, Minor: Computer Engineering

GPA: 3.43 / 4.00

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

## SKILLS

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

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

**Tools:** Docker, Git/GitHub (branching, PRs), GDB, Visual Studio, VS Code, Testing, Postman, Mocha/Chai, Microsoft 365

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

**Certifications:** CompTIA ITF+

**Soft Skills:** Communication, Teamwork, Leadership, 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.

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

GitHub

- Built a 500+ line turn-based C++ game using OOP principles with modular classes for gameplay and state management. Implemented arrays and file I/O to store, update, and persist player progress and game state between runs.
- Architected modular classes for game state, player actions, and game flow to keep logic organized and reusable. Enhanced maintainability and scalability, supporting future feature additions and reducing refactor effort.

## 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