

# Maxwell D. Fetterman

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**Objective:** Computer Science student (UConn Stamford, GPA 3.98) pursuing a National Lab/SULI internship focused on high-performance computing and secure systems; experience building parallel C pipelines (MPI/OpenMP/Pthreads) and Python tooling (Tkinter/Pandas) for performance testing and analysis.

## EDUCATION

**University of Connecticut (UConn), Stamford — B.S. Computer Science** 2023–Present | Expected: May 2027

GPA: 3.98/4, Major GPA 4.0/4 | Dean's List: Spring 2025

Selected coursework: Data Structures & Algorithms; Systems Programming & Parallel Computing; Cybersecurity Lab

Additional education (non-degree coursework): Carnegie Mellon University (2014); Ithaca College (2016); University of South Alabama (2019)

## TECHNICAL SKILLS

**Languages:** Python, C, Bash

**Parallel/HPC:** MPI, OpenMP, POSIX Threads (Pthreads)

**Python stack:** Tkinter, Pandas, Flask

## TECHNICAL PROJECTS

### Throttler — Network throttling test harness (Python, Tkinter)

- Built a desktop GUI that launches a dedicated browser window under a throttled network port, enabling controlled packet flow for web/app testing scenarios where per-application throttling is unreliable.
- Packaged the tool as a Windows executable for quick distribution and repeatable testing workflows.

### Limiter — Background app usage logger & enforcer (Python, Pandas, Bash)

- Implemented a background process that monitors “target” applications, writes structured logs, and generates daily/weekly/monthly usage charts via Pandas.
- Automated startup execution and enforced configurable limits by terminating applications opened after a time allowance is exceeded.

### Graph Puzzle Solver & Analytics (Python)

- Built a graph-based solver that searches puzzle states and reconstructs solution paths; collects solution rate, average solution length, and per-index success statistics.
- Stress-tested on large instances (e.g., 100k-length inputs) and produced visualizations highlighting recurring successful index patterns.

## SELECTED TECHNICAL COURSEWORK & LABS

### Systems Programming & Parallel Computing (CSE 3100)

UConn Stamford

- Developed parallel C implementations for sparse matrix–vector workloads and benchmarking pipelines using MPI, OpenMP, and Pthreads on HPC systems.
- Analyzed performance tradeoffs among distributed vs shared-memory parallelism (overhead, scaling behavior, synchronization costs).

### Cybersecurity Lab (CSE 3140)

UConn Stamford

- Implemented web security exercises including CSRF-based phishing scenarios and XSS attack demonstrations to evaluate defensive controls.
- Performed brute-force attack exercises and buffer overflow exploitation labs to understand memory-safety failure modes and mitigations.

## **EXPERIENCE & LEADERSHIP**

### **Teaching Assistant — CSE 1010 (Intro to Computing)**

Fall 2025 | UConn Stamford

- Led 2 weekly lab sections (~40 students) covering Python fundamentals and applied tooling (Tkinter GUIs, Pandas workflows).
- Supported debugging and project readiness through structured walkthroughs and individual coaching during lab time.

### **Freshman Head Coach — Boys' Stamford High School Soccer**

Fall 2024–Present | Stamford, CT

- Owned daily training plans and match-day game plans for a 21-player roster; coached the program to a 9–4 season record.
- Developed players through team progression plans; advanced 2 athletes to MLS NEXT (pre-professional) level.

### **Sports & Soccer Specialist — Long Ridge Camp**

2023–Present | Stamford, CT

- Coordinated scheduling and execution of ~10 activities/day; supported peak operations serving ~800 campers/week (~200/day) across Pre-K to 8th grade.
- Delegated setup and game execution to assistants while maintaining safety and engagement standards; received “Egg-cellent Staff” award.

## **ADDITIONAL EXPERIENCE**

### **Founder/CEO — Fetterman Construction Company**

2022 | Redmond, WA

- Delivered ~24 interior renovation projects (2-week to 2-month timelines) via referral-driven customer acquisition; managed estimating, scheduling, and execution.
- Managed roughly \$80K in annual gross receipts while coordinating materials, subcontractors, and quality control.

### **Instructional Para-educator — Stamford School District**

2023–2024 | Stamford, CT

- Maintained classroom continuity during a 2-week teacher absence; managed high-volume workflow (often 60+ worksheets/day) under real-time constraints.

### **General Manager — Gulf Coast Beads**

2019–2020 | Mobile, AL

- Managed 12-person loading teams and ensured on-time outbound shipping; improved inventory accuracy through reprocessing and store layout redesign.

### **Superintendent — Vanguard Construction**

2016–2018 | New York, NY

- Coordinated subcontractor teams (1–dozens) on \$1M+ commercial renovations, supervising up to 100 workers; delivered projects on time with zero safety incidents.
- Managed schedules, inspections, and quality control across interior office renovations and specialty builds (including Pulitzer Prize office renovation).