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).