

Hunter Ciarabellini

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EDUCATION

Cal Poly Humboldt, Arcata, CA — Software Engineering

August 2024 - Present

- B.S. in Software Engineering, Expected May 2026
- On track for Graduating Summa Cum Laude

Southwestern Oregon Community College, Coos Bay, OR

September 2022 - June 2024

- Associates of Arts for Transfer
- Graduated Magna Cum Laude

TECHNICAL SKILLS

Languages: Python, C++, C, PHP, HTML, CSS,

Databases: Oracle (OCI), MySQL

Concepts: Data Structures, Algorithms, OOP, Software Design Principles, Database Systems

PROJECTS

Connect Four AI

Python – Minimax, Alpha-Beta Pruning

- Built a game-playing AI using a depth-limited minimax algorithm with alpha-beta pruning to reduce search time
- Implemented a custom heuristic evaluation function to score board states and choose optimal moves

Custom Unix Shell with ncurses interface

C, POSIX APIs, Operating Systems Concepts

- Built a custom Unix shell in C supporting built-in commands and external program execution using POSIX process management
- Implemented command parsing and dynamic memory handling using geline, strtok, and realloc

Inter-Process Communication System

C, Process Communication, Process Management

- Implemented a bidirectional IPC system in C using Unix pipes and standard I/O
- Designed parent/child process control with fork, execl, dup2, and wait to coordinate synchronized execution

Multithreaded Terminal Simulation

C, Multithreading and Synchronization, Concurrent Systems Design

- Implemented a multithreaded terminal simulation in C using POSIX threads and semaphores to coordinate concurrent entity behavior
- Designed thread-safe rendering with ncurses, synchronizing shared screen state to prevent race conditions
- Applied circular buffers and time-based animation techniques for smooth real time movement

SKILLS

- Time management
- Communication
- Problem solving
- Can work well in a team and independently

AWARDS

Dean's List at SWOCC

Presidential Scholar at Cal Poly Humboldt

Coursework

- Data Structures
- Database Design
- Algorithms
- Software Design
- Web Apps w/ Database
- Algorithms
- Operating Systems
- System Programming
- Python
- Artificial Intelligence
- Architecture

WORK EXPERIENCE

Walgreens, Eureka, CA — Shift Supervisor - June 2024 - Present

- Managed and oversaw other coworkers during their shifts.
- Handled customer conflicts and shoplifters when necessary
- Counted and kept track of stores money and filed paperwork regarding the money.

Southwestern Oregon Community College, Coos Bay, OR — Resident Assistant - August 2023 - June 2024

- Oversaw other students and aided them with housing related problems
- Planned events and coordinated with other departments on campus for said activities.
- Upheld and enforced student housing rules for other students and myself.
- Wrote numerous detailed reports about incidents when housing rules were violated or various incidents occurred.