Joshua Fawcett

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EDUCATION

University of Oregon – Eugene, Oregon　　　　　　　　**Sep 2018 – Jun 2022**

- Bachelor of Science in Computer & Information Science
  Minor in Mathematics
  Academic Honors: Dean's list (7 terms)
  GPA: 3.73

Relevant Course Work:

- Object Oriented Design, Computer Organization, Data Structures, Algorithms, Software Organization, C/C++ & Unix, Operating Systems, I/O and File Systems, Process and Memory Management, Security, Functional Programming, Computer Networks, Artificial Intelligence, Software Methodologies, Game Programming

TECHNICAL SKILLS

Languages: Python, C/C++, C#, HTML/CSS, JavaScript, Bash
Tools: Unix/Linux, Git, Trello/Kanban, Unity

PROJECTS

Secure Messenger Application　　　　　　　　**Jan 2022 – Mar 2022**

- Led a team to design and implement a secure messenger application in Python.
- Used threading, socket programming, and AWS to create a client-server architecture, allowing any two users to exchange messages through NAT traversal.
- Created a simple SQLite database for lightweight data persistence.

Open-World RPG Game　　　　　　　　**Mar 2021 – Jun 2021**

- Collaborated with teammates to develop a 3D video game in the Unity Engine.
- Implemented C# scripts for UI functionality, Enemy behavior/AI, and various features related to the Gameplay.
- Used a Kanban board to manage project tasks.

Publisher/Subscriber Server　　　　　　　　**Mar 2020 – Jun 2020**

- Developed a publisher/subscriber server in C, modeled after a popular social media platform.
- Implemented an array of circular ring buffers to handle data stored/retrieved from publisher and subscriber threads.
- Used multi-threading and synchronization to simulate publishers/subscribers and prevent race conditions on stored data.

WORK EXPERIENCE

Personal Support Worker: Linn County Disability Services, Albany, OR　**Jul 2018 – present**

- Responsible for managing care of a disabled client which included duties of keeping the client on schedule, administering proper medication, and tutoring and assisting with homework.