DYLAN SCHREIBER

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EDUCATION

Colorado State University   **August 2021 - May 2025**
Bachelor's, Computer Science   *GPA: 3.91*

PROFESSIONAL EXPERIENCE

Colorado State University   **Fort Collins, CO, USA**
Undergraduate Research Assistant   *October 2022 - Present*
- Co-authored an AR/VR immersive analytics project utilizing the Varjo XR-3, which was accepted into CHI Late Breaking Work, a top-ranked international conference in human-computer interaction.
- Writing Python scripts to automate data processing, improving the efficiency and accuracy of experimental analysis.
- Mentoring and supervising four undergraduate students, fostering a collaborative research environment and advancing technical skills development.
- Developing and executing virtual reality simulations in Unreal Engine 4 and 5, including a forest bathing experiment to analyze the impact of nature on well-being.
- Leading the design and implementation of a VR sculpting experiment to study micro gestures and grasping, driving key insights in user interaction.

Spectrum   **Greenwood Village, CO, USA**
System Engineer Intern   *May 2024 - August 2024*
- Collaborated with a team of interns, engineers, and principal engineers on operational intelligence projects, focusing on OLT devices to detect and resolve port-level issues.
- Developed automated self-healing solutions for OLT device port issues, reducing customer downtime from 30 minutes to just a few minutes and significantly improving system reliability. Utilized SQL to perform database queries for analyzing and managing data related to OLT devices, leveraging Kafka to integrate real-time data streams.
- Worked with Camunda, a new tool for the company, to streamline workflow automation and optimize processes.
- Presented the OLT self-healing project to top executives, effectively communicating the technical details and impact of the solution.
- Contributed to data-driven decision-making through the integration of new data streams from Kafka for operational intelligence.

Colorado State University   **Fort Collins, CO, USA**
Undergraduate Teaching Assistant - Operating Systems   *September 2023 - January 2024*
- Facilitated weekly help desk hours for a 300-level operating system course.
- Graded assignments and provided constructive feedback to students.
- Collaborated closely with the course instructor to ensure accuracy with class material.

Colorado State University   **Fort Collins, CO, USA**
Undergraduate Teaching Assistant - Intro to Java   *January 2022 - August 2023*
- Instructed 30 lab students on concepts of Java.
- Assisted with facilitating lectures for 250+ students.
- Worked with students in a one-on-one environment.

PROJECTS & OUTSIDE EXPERIENCE

Real-Time AR Navigation System
- Developing an Android-based AR application for the XREAL Air 2 Ultra glasses, providing real-time navigation data via an interactive map displayed in the user's field of view.

SKILLS

Skills: Computer Networking, Data Structures & Algorithms, Java, C/C++, Python, Unity, Unreal Engine, Git, Linux/Unix, SQL, C#, Kafka, Process Orchestration