Dylan **Chapell**

Computer Science and Software Engineering

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Education

Colorado College

Aug 2020 - May 2024

B.A. in Computer Science with Distinction, Minor in Chemistry — *Colorado Springs, CO*

- GPA: 3.88
- Relevant Courses: Computer Networking, Scientific Simulation, Computer Organization
- Supplemental Courses: Inorganic Chemistry, Analytical Chemistry, Database Management, Computational Graph Theory
- Recieved the Steven Janke Award for unusual talent and achievment in Computer Science.

Skills

Languages	C, Java, Python, SQL, PowerShell
Command-line	Vim, Git, GCC, GDB, Linux
Supplemental	Customer Service, O365 and G Suite Administration

Selected Work Experience

Hansen Gress

June 2024 - Now

Help Desk Technician — *Juneau, AK*

- Investigated and resolved 30+ tickets per week from 80+ clients in varying industries, with 100% positive feedback.
- Triaged and delegated tickets in the rotating Help Desk Deputy role.
- Built and maintained client networks with a Unifi + Meraki tech stack.
- Designed and deployed the company's first Azure Virtual Desktop deployment.
- Used Python and Powershell to automate internal tasks and configure depoyed endpoints.

CC Office of Information Technology

Jan 2023 - May 2024

Apple Repair and Solutions Center — *Colorado Springs, CO*

- Diagnosed and repaired computers and phones as an Apple certified technician.
- Resolved technical issues for students, staff, and faculty.

CC Quantitative Reasoning Center

May 2023 - May 2024

Computer Science Peer Tutor — *Colorado Springs, CO*

- Worked with professors to provide tutoring tailored to advanced courses (Data Structures and Algorithms, Computer Organization).
- Tutored peers in advanced and beginner Computer Science courses, as well as cross discipline courses.

Highlighted Projects

Research - NeRF-based 3D Reconstruction and Orthographic Novel View Synthesis Experiments Using City-Scale Aerial Images

Summer 2023

Consumer Networking Technologies REU — *University of Missouri*

- Researched the field of computer vision and machine learning focused on NeRFs and identified an area for knowledge creation.
- Developed a novel method to focus NeRF training in large scenes, accelerating Ground Control Point production.
- Implemented that method as a plugin for the open source Python project nerfstudio.
- Lead author of a poster at the IEEE Applied Imagery Pattern Recognition workshop and a paper on the results of the work.

Simulation Optimization at Lawrence Livermore National Laboratory

Fall 2023

Course: Scientific Simulation in Situ — *Colorado College*

- Collected and analyzed performance metrics of a C simulation program.
- Identified an instance of false sharing negatively impacting parallel performance.
- Designed and implemented a split memory architecture to reduce instances of false sharing.
- Used a distributed git workflow to share features with group members and classmates.

Project - Custom Network Stack

Fall 2022

Course: Computer Networking — *Colorado College*

- Worked in a team to implement network stack for novel hardware in C.
- Wrote link, network, transport, and application layers plus test applications utilizing the network.
- Achieved redundant routing with network discovery between 5 devices.