

# Dylan Chapell

COMPUTER SCIENCE AND SOFTWARE ENGINEERING

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## Education

### Colorado College

B.A. IN COMPUTER SCIENCE WITH DISTINCTION, MINOR IN CHEMISTRY

Aug 2020 - May 2024

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
- Received the Steven Janke Award for unusual talent and achievement in Computer Science.

## Skills

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

## 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.

## 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.
- Triageed and delegated tickets in the rotating Help Desk Deputy role.
- Built and maintained client networks with a Unifi + Meraki tech stack.
- Administered client cloud infrastructure balancing security, functionality, and user experience.

### 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.
- Completed certifications to repair iPhones from 5 and up as well as 10 classes of Mac computers.
- 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.