

Dylan Chapell

COMPUTER SCIENCE STUDENT

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Education

Colorado College

B.A. IN COMPUTER SCIENCE

Aug 2020 - May, 2024

Colorado Springs, CO

- GPA: 3.85
- Relevant Courses: Computer Networking, Software Design, Computer Organization, CS2
- Supplemental Courses: Number Theory, Computational Graph Theory, Calculus 2, MB131, CH108

Skills

Languages C, Java, Python, PostgreSQL

Command-line GCC, Vim, Git, General UNIX Utilities

Supplemental Customer Service, Conversational Spanish

Highlighted Projects

Project - Sentiment Analysis in Tweets

Spring 2022

COURSE: COMPUTATIONAL GRAPH THEORY

Colorado College

- Used sentence parsing library to turn tweets into NetworkX graphs
- Calculated graph Average and Heat Kernel Signature using sentence graphs
- Trained a neural network on both methods of extracting sentiment

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 layer to interact with optical transmitters and receivers through Raspberry Pi GPIO.
- Wrote network layer to discover network topology and route packets.
- Wrote system to receive packages from an application on the sending computer and route to the correct application on the destination computer
- Wrote multiple test applications utilizing the network.

Project - Budget Tracking Software

Fall 2022

COURSE: SOFTWARE DESIGN

Colorado College

- Met with stakeholders to gather requirements and wrote technical and business requirements documents.
- Interpreted technical and business requirements to build a Java Swing GUI application.
- Stored and retrieved all user data in a PostgreSQL database.
- Packaged the application for distribution on Mac, Windows, and Linux.

Selected Work and Volunteer Experience

Alaska Fjordlines

Summer, 2019 - Summer, 2022

OFFICE ASSISTANT AND DECKHAND

Haines, Alaska

- Answered client inquiries and processed bookings over email, phone, and in person
- Organized sailing schedules for daily boat tour.
- Ensured a good client experience onboard, serving refreshments, answering client questions, and assisting with the wildlife tour.

COS Mutual Aid and Solidarity Union

Fall 2020 - Now

CORE TEAM MEMBER

Colorado Springs, CO

- Worked to create and sustain a weekly food and supply distribution event to serve the unhoused community.
- Ensured the distribution has happened every week, without fail for two years.