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Education

Colorado College Aug 2020 - May 2024

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

Colorado Springs, CO

- Relevant Courses: Computer Networking, Scientific Simulation, Computer Organization
- Supplemental Courses: Inorganic Chemistry, Analytical Chemistry, Database Management, Computational Graph Theory

Skills

Languages C, Java, Python, SQL, MongoDB **Command-line** Vim, Git, GCC, GDB, Linux

Supplemental Customer Service, Conversational Spanish

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 NeRF novel view synthesis and identified an area for knowledge creation.
- Developed a novel method to focus NeRF training in large scenes, accelerating Ground Control Point production.
- 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 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 route packets between multiple applications running on the same host.
- Wrote multiple test applications utilizing the network.

Selected Work and Volunteer Experience

CC Office of Information Technology

Jan 2023 - Now

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 - Now

COMPUTER SCIENCE PEER TUTOR

DECKHAND AND OFFICE ASSISTANT

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.

Alaska Fjordlines

Summer 2019 - Summer 2022

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.

DYLAN CHAPELL · RÉSUMÉ JANUARY 10, 2024