Coleby Kauffman

kauffman.coleby@gmail.com • Boise, Idaho • GitHub • Portfolio

EDUCATION

Bachelor of Science, Computer Science • Minor in Mathematics • 4.0 GPA
Lewis-Clark State College • Fall 2020 — Spring 2023

PROJECTS

LURKMAN: A robust terminal interface written in C / C++ for playing text-based RPGs with anyone in the world
ttydServ: A feature-rich multithreaded TCP server that hosts a text-based RPG. A custom wiki with details can be found here
Calendar Mobile App: A cross-platform mobile app using TypeScript, Angular, and Ionic made for parents and students to stay up to date with the local Lewiston, Idaho school district
Linux Kernel Modules: Keylogger for logging passwords, network traffic monitor, creating proc files, etc.
OpenGL Lawn Mower: A C++ OpenGL application that simulates mowing the lawn with many customizable options
tracklessURL: A user-customizable browser extension written in JavaScript that removes tracking parameters from URLs

TECHNICAL SKILLS

Programming Languages: C • C++ • JavaScript • Python • R • Java (Android) • Swift • SQL • HTML • CSS • some PHP
Other: Git • GitHub • Bash • Linux • Visual Studio Code • Microsoft Office Suite • Ionic / Angular • OpenGL • Bootstrap

RESEARCH PROJECTS

Genomics and Bioinformatics Data Analysis Research Project — April 2021 – July 2022

- A clustering algorithm for mutant comparative genomics written in C++
- Suite of software tools designed to improve the accuracy of induced mutation detection
- Received HERC-STEM undergraduate research award to sponsor the project
- Presented the project at the Idaho Conference on Undergraduate Research in 2022

RESEARCH PUBLICATIONS

1. Jared M. Simons, Tim C. Herbert, **Coleby Kauffman**, Marc Y. Batete, Andrew T. Simpson, Yuka Katsuki, Dong Le, Danielle Amundson, Elizabeth M. Buescher, Clifford Weil, Mitch Tuinstra, Charles Addo-Quaye (2022). Systematic prediction of EMS-induced mutations in a sorghum mutant population. https://doi.org/10.1002/pld3.404.

AWARDS

Outstanding Student of the Year: Most outstanding graduate from the entire Business & Computer Science Division at LC State
President's List: Recognized on the President's List with a 4.0 GPA every semester I attended LC State

RELEVANT COURSES

Algorithms & Data Structures (C / C++) • Operating Systems (C) • Computer Organization and Architecture (C / Assembly)
Structured Query Language (SQL) • Software Engineering (iOS / Swift) • Systems Programming (C / Bash)
Computer Networks (C / C++) • Intro to Web Development (HTML / CSS) • GPU Programming • Calculus II • Linear Algebra

WORK EXPERIENCE

Engineer • Boise State University Institute for Pervasive Cybersecurity — May – November 2022

- Refactor and expand the functionality of an unfinished internal web application used to conveniently deploy and manage sets of vulnerable virtual machines for employees and students to train with

Summer IT Intern • West Ada School District — Summers of 2019 – 2022

- Re-image student and staff desktops and laptops, configure printers on school network, assist IT field team with various tasks, set up labs, offices, classrooms, etc., take inventory of all technology

EXTRACURRICULARS

- Associated Students of LC State College (Student Government) Justice Senator — May 2022 – May 2023
  - Assist in planning and putting on school events, completing campus projects, funding student clubs and organizations, attending and reporting on faculty committee meetings, and more
- Computer Science and Mathematics Tutor — Sept. 2021 – May 2023
  - Assist students with Computer Science and Mathematics topics in the Student Success Center