CRYSTAL L. YOUNG
Software Engineer

LINKEDIN: https://www.linkedin.com/in/crystallynnyoung
GITHUB: https://github.com/Catastrophie
EMAIL: crystalyoung92@gmail.com
PORTFOLIO: catastrophie.github.com

Unpublished Projects

Google Spreadsheets   2021
Multi-User Networked Excel duplicate (remake)
Server Network & Docker Programmer
Docker Linux spin up • C++/C# • 5 member team
- Created the DockerFile for hosting the server side of the networked multi-user spreadsheet
- Worked with the team to link up the client's interface with the running server, receive the messages, and update all existing clients of changes as they happen.

Router Network Communication   2021
Networked UDP & TCP nodes

Visual Studio/Command Line compiled • Java • Solo project
- Project to imitate how routers handle passing or dropping packets based on the rule in the routing table.
- Node A will randomly generate numbers for the header as well as a random message to be sent. Data is set over UDP to the router, and if it passes the right rules, the message is sent to Node B.

Tank Wars   2020
MultiNetworked artillery (remake)
.Net executable • Visual Studio • C# • Peer Programming team
- Programmed the Backend Network Controller
- Created the console start up for the server and multi-threading data access for each client
- Designed the GUI from given and created assets and added our own twists for the client and server to share

Relevant Course Work
- Data Structures and Algorithms
- Computer Organization and Design
- Networking
- Software Practices 1 & 2

Tools & Skills

Tools
Visual Studio	Eclipse IDE
Android Studio	Perforce
Git Source Control	

Languages
Java	C#	C++/C
Kotlin		Python

Skills
Linux, PC, Mac OS
    Command line
    Command Prompt
Ansible Automation
Android Development
MySQL queries & SQL database
Shell & Bash Scripting
Test case development
Regression Testing
Algorithm Complexity Analysis
Data Center Cluster Basics
Elk Stack Monitoring

Education
University of Utah   Present
  Bachelors of Science
        Computer Science in Games

Utah State University   2016
  General Education

Extracurriculars
Joined the 2020 season HackTheU as a club organizer on the marketing team

Volunteered during the 2019 season HackTheU overnight hackathon event

Work Experience
Network Intern, University of Utah
2016 – Present
- Work at improving personal understanding of Network topologies
- Furthering personal growth and understanding of Linux systems and Command Line actions
- Create and keep records of personal growth in relevant knowledge basis' for weekly and monthly sync-ups
- Experience within Android Studio to create a user interface with Raspi3 robot run on UDP
- Trouble-shoot user level issues within the clusters via Jira, and currently Service-Now
- Spun up resources within GENI Experimenter to create experimental resources with which to test different programs/processes in a safe environment
- Create system logging from the base (grep file), up to the ElasticSearch/LogStash level
- Gathered data via SSH/VC to logs to complete a DoD 5220.22m Nwipe for secure future use
- Utilize company equipment to expedite all job necessities in a timely manner
- Ensure proper care of all company equipment