

EDUCATION

- **Colorado School of Mines** Golden, CO
Bachelor of Science, Major in Computer Science, Minor in Mathematical Sciences; GPA: 3.72 (Current) Aug. 2018 – Dec. 2021
- **Yorktown High School / H-B Woodlawn Secondary Program** Arlington, VA
Advanced Studies Diploma; GPA: 4.14 (Weighted) Sept. 2014 – June. 2018

EXPERIENCE

- **Colorado School of Mines - Department of Computer Science** Golden, CO
Undergraduate Research Assistant, Mines Undergraduate Research Fellow Sept 2019 - Present
 - **GPU Graph Analysis:** Researching under Dr. Bo Wu on GPU based Graph Pattern Mining
- **Henry M. Jackson Foundation** Silver Spring, MD
Software Engineer, Val. G Hemming Simulation Center - Virtual Medical Environment Lab May 2019 - Dec 2019
 - **Projector Alignment:** Using Computer Vision, HTTP connected cameras, and HTTP connected projectors to develop an automatic projector alignment server that can align two projectors to be directly on top of each other for use in 3D projection, and can align two projectors adjacent to each other so that an image can be continuously displayed across multiple screens
- **Starmesa Solutions Inc.** Arlington, VA
IT Consultant June. 2015 - Present
 - **Linux Server Management:** Installing, configuring, and managing CentOS 6&7 Servers for a wide variety of applications.
 - **KVM Virtual Machines:** Installing and configuring KVM based virtual machine hosts with KVM and Virt-Manager.
 - **Nagios:** Installing, configuring, and managing Nagios infrastructure monitoring servers for use monitoring Linux and Windows Servers, printers, and network status.
 - **Linux Samba Servers:** Installing and configuring Samba network drive server on Linux hosts. Interfacing Linux with Windows Active Directory authentication protocols.
 - **OpenVPN:** Building, imaging, and configuring OpenVPN server.
 - **KVM Switches:** Installing and configuring KVM switches for remote TTY access from within a network.
 - **Data Recovery:** Recovering critical data from failed hard disks.
 - **Windows 7 Imaging:** Imaging and configuring Windows 7 Workstations for use in large office environment.
 - **Windows Server 2008 & 2012:** Installing and configuring Windows Server 2008 & 2012. Linking server to Active Directory environment.
- **Stairwell Software LLC** Arlington, VA
Founder, Owner, and Software Developer Sept. 2015 - Dec. 2016
 - **Inventory Systems:** Developing and configuring a secure computer inventory system for managing company owned devices for a medium sized company.

SKILLS

- **Operating Systems:** Very familiar with Linux, MacOS X, and Microsoft Windows.
- **Programming Languages:** Experience with C, C++, Cuda, FORTRAN, Python, PHP, SQL, Bash, Java, and Matlab.
- **Computer Tools:** Google Drive, Mathematica, LaTeX, Photoshop, GIMP, git, KVM, OpenCV, POCO, Visual Studio, CLion, vi, gcc/g++, make, and VirtualBox.
- **Languages:** Conversational fluency in German.
- **Other:** Problem solving skills, mathematically minded, works well on a team, familiar managing software projects, lab safety skills.

TEAM EXPERIENCE

- **Colorado School of Mines EPICS:** Conceptual design and fabrication of engineering solutions to mitigate flood water build up in urban areas.
- **H-B Woodlawn Junior Varsity Ultimate:** Team Captain for H-B Woodlawn Junior Varsity Ultimate Frisbee team. Led the team to a very successful season.

AWARDS

- **H-B Woodlawn Math and Computer Science Scholarship:** Scholarship for excellence in Math and Computer Science from H-B Woodlawn Secondary Program.
- **Scholastic American Vision Award:** Regional American Vision Award from Scholastic Art and Writing for Photography.