

Gerhard van Andel

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Education

Colorado State University

Fort Collins

Bachelors of Science: Applied Computing Technology, Minor in Business Administration Fall 2014 - Spring 2017

GPA: 3.4

Colorado Mountain College

Breckenridge

Associate of Science,

Fall 2011 - Fall 2014

Technical Proficiencies

Languages: c, c++, java, python, go, html5, css, javascript, php

Scripting: sh, mksh, Bash, Perl, Ansible

Virtualization: ESXi, VMware, VirtualBox, GNS3

Documentaion: Confluence, Lucidchart, Visio, Latex

Databases: MariaDB, RRD

Interests: Linux / Open Source Technology, Kernel Hacking, Computer Security, Suckless Development

Projects

CS455 - Distributed Systems: *Java* – concurrent programming, thread pools and safety, non-blocking I/O, scalable server design, distributed mutual exclusion, distributed graph algorithms, distributed objects. MapReduce and implementing thread-safe data structures and analyzed census data using Hadoop's MapReduce.

CS370 - Operating Systems: *C* - distributed mesh networking to generator and analyze network traffic for wireless load balancing system. Using thirty Raspberry Pis, custom Python, Bash, PHP scripts and the use of NGINX, Ansible for management.

CSAW CTF Competitor: Cyber Security Awareness Week Capture The Flag competitor (2014, 2015, 2016)

RMCCDC CTF Competitor: Rocky Mountain Collegiate Cyber Defense Competition (2014, 2015)

Experience

Colorado State University: Computer Science Department

Fort Collins, CO

Undergraduate Research Assistant

October 2016 - present

Funded through the National Science Foundation Research Experiences for Undergraduates program (NSF REU).

Goal Design fault tolerance schemes for stateless message processing with Apache Storm.

Process Configure and install Apache Storm cluster on department machine.

Testing Testing message processing schemes using Apache Storm cluster.

Colorado State University

Fort Collins, CO

Network Operation Assistant

August 2014 - present

Assisted in the monitoring and maintenance across an enterprise network.

Linux Manage installations of Arch, Debian, CentOS, and FreeBSD.

Network Documentation Create and design network maps of wired and wireless infrastructure.

Equipment Installation and support of access points, switches, routers, and UPS.

Cabling and Infrastructure Assist with telecom management and infrastructure across a major university.

Solution Design Prototype and design low cost network monitoring device used to solve problems.

Mountain Multi-Vision & Sound

Breckenridge, CO

Automation Wizard

June 2010 - August 2014

Integration of commercial control systems and home automation systems to allow seamless control of all aspects of technology.

Scripting Generated different configuration files needed for the proper execution.

System Design Crestron, Lutron, and Elan Home Systems installation, integration, and design.

Fault Tolerance Designed a system that will continue operatating properly in event of failure.

Racks and Enclosures Designed, built, and installed in commercial and home environments.

Custom Device Drivers Custom integration of drivers and configuration in order to meet project goals.