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*

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.

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

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

ANT Farm **Network monitoring**

Raspberry Pi, Python, Bash, PHP, NGINX *January, 2016 - present*

A distributed mesh to generator and analyze network traffic for wireless load balancing system.

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 and compare fault tolerance schemes for stateless message processing and compare performance with Apache Storm message processing guarantee.

Process Configure and install Apache Storm cluster on department machine.

Testing Testing fault tolerance message processing schemes using Apache Storm cluster as a benchmark.

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/Networking Tech *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 Desiged, built, and installed in commercial and home environments.

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