Michael Paul Hayden

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Experience:

Senior Backend Engineer
MRI Technologies,
August 2021 – Present

1. I develop and support COSMIC, an inventory management and event planning system for tracking spaceflight hardware for the Collins Aerospace xEVAS contract which has a .NET backend and Postgres database
2. I developed and supported NASA STI Repository (NTRS) and STRIVES which have .NET and Node.js backend, ElasticSearch, and Postgres database
3. I designed the multi-index search setup to allow external publications to appear in NTRS results
4. I updated the sync job from JPL's TRS system to the new Dataverse API
5. I wrote new and enhanced existing backend jobs for data normalization and indexing
6. I setup a Kubernetes (kind) dev cluster for local backend dev work based off of an existing docker-compose configuration

Research Affiliate
Georgia Institute of Technology, School of Physics
March 2019 – Present

1. I am designing a monitor and control application framework in Go which will be used to communicate with TheSkyX API for remotely controlling the Georgia Tech telescope in Maui, Hawaii
2. I designed and developed a Python application to transfer the most recent AllSky camera image from the telescope computer to the Aloha project website

Software Engineer
Viasat Inc, Real-Time Earth, Antenna Systems
June 2018 – August 2021

1. I developed the Real-Time Earth Scheduler API which had Django and C++ backend, AngularJS frontend, and Postgres database (AWS RDS)
2. I regularly deployed software to test and production using Ansible
3. I wrote a custom Ansible module in Python to make RPC calls and configure Viasat's High-rate Receiver 3200 during deployments
4. I designed and developed the alarm system for the Operator Station Software in C# with a C++ backend component on the Station Control Software (SCS)
5. I wrote a Python script to allow the SCS to activate or deactivate security policies on a Juniper SRX
6. I developed new and supported existing antenna component drivers for the SCS using C++

IT System Administrator
Georgia Institute of Technology, School of Mechanical Engineering
November 2016 – August 2017

1. I administered 70+ Windows and Linux servers which included Windows Server 2008/2012, RHEL, Ubuntu, and a ESXi VM cluster managed via VMWare vCenter
2. I created our departments server knowledge base containing all system information and processes for all of the the School of Mechanical Engineering's IT systems
3. I planned and executed the physical relocation of 40% of our total server infrastructure which included our primary VM cluster and NetApp

IT Support Professional II
Georgia Institute of Technology, School of Biological Sciences
April 2014 – November 2016

1. I administered both Windows and Linux systems which include resolving complex workstation, application and server related problems
2. I built the department Windows deployment server based on Microsoft Deployment Toolkit (MDT) and Windows Assessment and Deployment Kit (ADK) to provide automation for workstation deployment
3. I built the department kickstart server to provide automation for RHEL, Ubuntu, and BioLinux server deployment
4. I built the department Puppet server which utilized Foreman for node management
5. I automated software updates and maintenance using Chocolatey via Puppet

Information Systems Supervisor
Six Flags Over Georgia
September 2013 – April 2014
(July 2007 – August 2010 as Senior IS Technician)

1. I performed help desk and on-site support for 100+ end user computers, 300+ point of sale systems, and 50+ Cisco switches
2. I led the technician team to a nearly flawless park opening, encompassing: admin, point of sale, audio/video, network, and the implementation of Chromebooks
3. I built and deployed department images utilizing Norton Ghost

Computer and Network Infrastructure Technician
United States Air Force Reserve
August 2005 – December 2013

1. I acted as a unit and base-level communications focal point help desk technician
2. I performed troubleshooting via phone, remote session, or traveling on-site for a work order
3. I interpreted and wrote computer operation instructions for unit-level use

Education:

Master of Science, Applied Computer Science
University of West Georgia, July 2017

Bachelor of Applied Science, Technology Management
Clayton State University, May 2013

Associate of Applied Science, Electronic Systems Technology
Community College of the Air Force, August 2012

Professional Certifications:

ITIL Foundation Version 3
Obtained August 2011

Security Clearance:

Top Secret Sensitive Compartmented Information (TS/SCI)
Held from August 2005 – July 2016