Gavin Whitson

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EDUCATION

ANGELO STATE UNIVERSITY - San Angelo, TX; Aug 2020 – May 2024
Bachelor of Science in Computer Science; Cumulative GPA: 3.03/4.0
Relevant Coursework: Data Structures and Algorithms; Operating Systems; Algorithmic
Language and Compilers; Artificial Intelligence; Web Programming

WORK EXPERIENCE

ANGELO STATE UNIVERSITY, Information Technology - San Angelo, TX
System Administrator; Feb 2023 – Present
- Managed and train team of student technicians to complete various tasks as assigned to the Server Team. Wrote and maintained high level technical documentation to keep a complete knowledge base.
- Wrote tools such as a program in Golang to toggle the state of servers in a load balancer using the NSX API, and a suite of PowerShell scripts to process the accounts of students moving from enrolled to non-enrolled and archiving their data as needed.
- Moved existing store of scripts and utilities to be on the universities GitLab instance with proper version control and change tracking.

ANGELO STATE UNIVERSITY, Information Technology - San Angelo, TX
Server Technician; Sep 2021 – Feb 2023
- Deployed and troubleshooted physical and virtual servers, including all networking needed to make them function.
- Managed the Active Directory environment of the university to ensure that all users had the proper access and that Group Policy was configuring the proper settings.
- Wrote scripts to streamline the creation of the main types of accounts manually created and packaged them into a GUI interface using Windows Forms.

LAMBDIN IT CONSULTING – Midland, TX
Tier 1 Technician; Jun 2019 – May 2022
- Consulted companies in the Midland and Odessa area and provided on-site support for a wide range of companies.
- Setup and managed client domains, network infrastructure, backup systems, and handled patching for production server environments.
- Remained with this company in a remote role for 2 years as I started college during which I was primarily responsible with maintaining the backup systems of each of the clients and rolling out patches for over 100 servers across the companies clientele.

PROJECTS

PASCAL COMPILER Dec 2022 - https://github.com/gwhitson/4301Compiler
- Implemented a compiler for Pascal-lite programming language which is a subset of Pascal.
- Uses a state machine and a custom written tokenizer to build a NASM Assembly file which can execute code.

PYTHON DND Oct 2023 - https://github.com/gwhitson/PythonDND
- Designed and implemented an interactive battle map for Dungeons and Dragons to use during sessions with friends.
- Written completely in Python, uses TKinter for the GUI elements and SQLite to store game state and use established templates to make adding custom entities easy.

HTTP SERVER Mar 2024 - https://github.com/gwhitson/http-server
- Implemented a HTTP 1.1 Server in the Go Programming language that can parse and respond to client requests.

ISS Consumables Analysis Jan 2024 - https://github.com/gwhitson/ISSConsumablesAnalysis
- Analyzed 2 years of historical and future data of the consumables, gases, liquids and crew onboard the International Space Station in conjunction with Barrios Technologies.
- Provided insights into the usage rates of various categories for multiple windows of time.

SKILLS

- Windows and Linux Server Administration
- PowerShell and Bash scripting
- LDAP and Active Directory
- DHCP and DNS
- Go Programming Language
- C/C++
- Python
- HTML/CSS
- Group Policy
- VMWare vSphere and ESXi
- SQL