

Avery Clary

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ABOUT ME

During the day, I primarily work on tickets, scripting, and SQL, but my interest in HPC, particularly for the biochemical field, motivated me to go back to school for a master's degree. While I haven't gained extensive professional experience in this area, I focused my studies on the computational side whenever possible: learning about distributed systems, parallel programming, ML implementations specifically for molecules, and even dabbling in quantum simulation with Strange. In my spare time, I enjoy reading Sci-Fi and tinkering with my home lab. My passion lies in both the implementation and application of HPC.

EXPERIENCE

THE MEMPHIS ZOO

Sep. 2021 – Present | System Administrator
Oct. 2019 - Sep. 2021 | Information Technology Technician

- Configures, installs, and manages workstations, VMs (Hyper-V), servers, networking equipment, and any programs needed for daily operation
- Administers a hybrid Active Domain system including writing Group Policy Objects
- Automates tasks using Powershell, Bash, Python, and HID emulation devices
- Analyzes and visualizes data using PowerBI, Python, and SQL
- Built an ETL solution to provide a MariaDB data warehouse for all revenue source software
- Maintains a reverse ETL solution, Hightouch, that load data from Ticketing SQL server to Iterable for Marketing purposes
- Programmed an internal informational site using Django and Docker
- Used Scikit to create a Random Forest based model to predict future daily attendance based on weather and date features
- Designed and constructed a new 0.5 PB software-defined storage solution using Windows Storage Spaces
- Models and Scans 3D objects as needed using FreeCAD, Onshape, and EXStar. Producing those objects using FDM and MSLA 3D printing

ISCREEN VISION

May 2019 - Oct. 2019 | I.T. Intern

- Automated the monthly quality objectives report using Openpyxl and Python

EDUCATION

UNIVERSITY OF MEMPHIS

MASTER OF SCIENCE IN COMPUTER SCIENCE
2022 - 2024

BACHELOR OF SCIENCE IN COMPUTER SCIENCE
2017 - 2021 | Focus: Cyber Security

SKILLS

PROGRAMMING

3+ years:

- Python • SQL • Powershell

1+ years:

- Rust

TECHNOLOGY

- Git • Linux • Windows • Keras • Ansible • Docker • Hyper-V