Jack Rogerson - Sample Technology Works:

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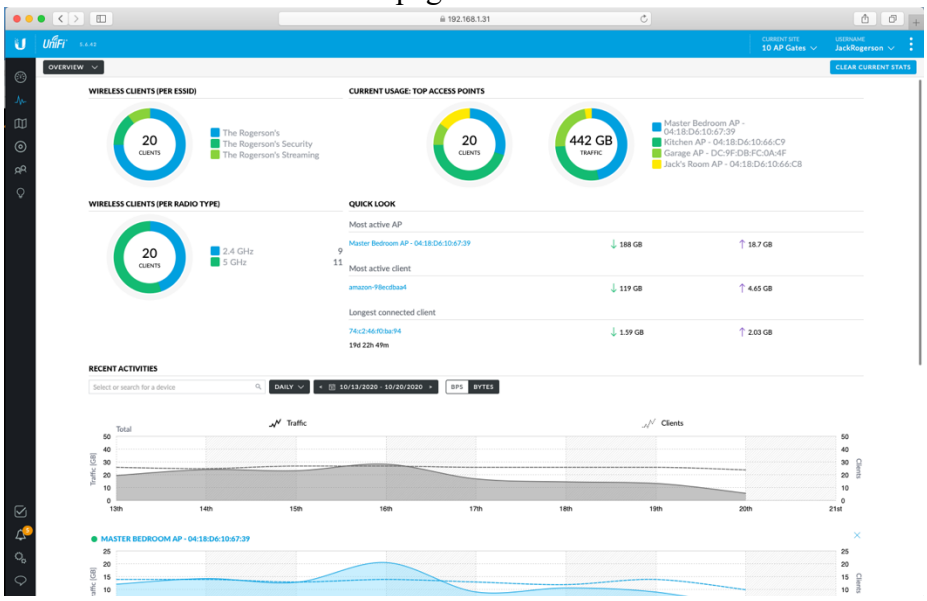
- **Internet Throughput/Ping Tracking and Visualization:**
  - I have created an internet throughput and ping tracking utility that uses a python script run as a cron job to invoke a third-party speed test utility. This data is then stored in a database and visualized using Grafana.

- **UBNT Network Controllers (Web Pages):**
  - I have designed multiple Ubiquiti Unifi network controllers in a variety of environments including virtualized (Ubuntu Server) and physical Raspbian implementations. Controllers allow visualization of network statistics such as connected clients and throughput. The Unifi controllers feature a Guest access webpage that I have made modifications to.



- **Local Apache Webserver (Cameras):**
  - I have created an Apache webserver built on a virtualized Ubuntu server environment. Using this webserver, I created an HTML interface using Iframes to allow the user to view multiple IP cameras in one page. This was used within the local network to monitor the cameras.

- **HTML & CSS:**
  - I have worked on website design with HTML and CSS. This includes researching HTML tags, editing and creating CSS documents and structuring files within a webserver.

- **OpenVPN Server:**
  - I have created an OpenVPN server to allow clients to connect to my home network when away from the LAN. This allows us access to NAS shares and IP Cameras.

- **HR Live:**
  - I was the director of a livestreaming platform used by my school and the shoreline conference of Connecticut. This platform created multi-cam livestreaming with fully integrated graphics. A sampling of the portfolios is available at the following link: https://www.youtube.com/channel/UC20eCwxhai8H7vYfRsYJaFw/videos

- **School Coding Assignments:**
  - All of my CSCI 120,121, and 160 assignments are available on request to authorized individuals at: jrogerson@clarku.edu

- **UBNT Network Designs (PtMP & PtP):**
  - I have designed specialty networking solutions for CT schools for outdoor livestreaming capabilities. The solutions are designed to be minimally intrusive and allow quick on the go setup. See an example diagram below: