After aggregating log in counts on 15-minute time intervals, and plotting the associated time series, it was clear that there were definitely spikes in log ins across the dataset, but it was hard to get a sense of when in the day. Thus, I then aggregated by time bucket and got rid of days to see patterns across time of day. Upon visualization, there were some interesting observations. There were about 6 periods of very high log in counts. However, 3 of them occurred before 3:00am and had higher frequencies than any other periods during the day. The other periods of high log in activity were around 4:30am, 11:00am, and 11:15pm, with trough in activity bottoming out around 1:00am, 7:00-8:00am and 4:00-7:00pm. Without knowing what kind of data this measuring or what the log ins are in relation to, I’d be skeptical of the high swings in activity from 12:00-3:00am.