

Logan Ayliffe

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EDUCATION

University of Pennsylvania, School of Engineering and Applied Science **Philadelphia, PA**
May 2021
Master of Computer and Information Technology | GPA: 3.59 / 4.00
Founder, MCIT Student Organization | Founder, Annual MCIT Hackathon

University of Pennsylvania, College of Arts and Sciences **Philadelphia, PA**
May 2021
Bachelor of Arts in Cognitive Science: Computation and Cognition | GPA: 3.81 / 4.00
Summa Cum Laude | Dean's List

SELECTED PROJECTS

Can Twitter predict US county-level excessive alcohol consumption? **2021**
pandas, python, sklearn | [GitHub](#)

- Collaborated in a team of 3 to implement published ridge regression ML model which uses NLP derived features from dense, high dimensional Twitter data to predict excessive alcohol consumption.
- Experimented with various methods of dimensionality reduction to improve model performance.
- Designed and implement feed-forward neural network to replace prior model yielding significant improvement in both Pearson R and mean absolute error.

Predicting COVID case rate change by US state using Big Twitter Data **2021**

pandas, python, sklearn, nltk | [GitHub](#)

- Collaborated in a team of 3 to extract, transform, and load large Twitter datasets for use in multiple ML models using Academic Research Twitter API endpoints.
- Designed and constructed ML model using TF-IDF scores for ngram usage in COVID related tweets by US state.
- Experimented with baseline extensions and improved model performance to accurately predict percent change in COVID-19 case rates based on ngram scores.

SoundtrackSurfer **2021**

react, express, node, mysql, amazon RDS, spotify API

- Collaborate in a team of 4 to create single-page application which explores film soundtracks, intelligently recommends relevant artists / films / songs, and plays embedded spotify tracks.
- Primary responsibilities include react frontend, advanced database query optimization, and spotify integration.

PennPals **2020**

react, express, node, mongodb, twilio, figma | [GitHub](#)

- Collaborate in a team of 3 to design and create a WhatsApp clone using MERN stack and Twilio Conversations API
- Design and develop messaging and multiple party audio and video chat functionality built on top of the Twilio Conversations API.
- Primary project manager for the team using agile methodology and GitHub Projects.

Professor59x **2020**

python, tweepy, flask, heroku | [GitHub](#)

- Design and develop twitter bot for the University of Pennsylvania CIT59x student group.
- Monitor Penn related tweets, interact with Penn community online, post fair-use Penn images from official Penn flickr account.

PROFESSIONAL EXPERIENCE

University of Pennsylvania, Department of Family Medicine and Community Health **Philadelphia, PA**
2016 -- 2021
Business Administrator

- Successfully design and implement inpatient, ambulatory, and obstetric clinical productivity reporting and financial incentive program for 30+ primary care doctors.
- Standardize and systematize departmental business processes including revenue tracking, payroll, purchasing, hiring, onboarding, grants management, and petty cash.
- Modernize business intelligence dashboards while increasing revenue and right-sizing controllables.

University of Pennsylvania, National Center for Integrated Behavioral Health **Philadelphia, PA**
2016 -- 2021
Technical Project Manager

- Lead multi-site effort to strategically modernize Center brand identity, website, social media presence, and style system.
- Design and publish digital content for all Center dissemination channels as well as print materials to support faculty activities at conferences and stakeholder meetings.

Tria Restaurant Group **Philadelphia, PA**
2013 -- 2016
General Manager

- Led team of 25 direct reports generating \$3.5M in annual revenue while coordinating hiring / on-boarding / staff management, data-driven process improvement initiatives, regulatory compliance, external stakeholder and high level investor relationships, and more.

French Broad Chocolates **Asheville, NC**
2008 -- 2013
Social Media and E-Commerce Manager

- Develop and grow all company technological assets including hardware, software, intellectual property, print and digital marketing materials. Successfully grow e-commerce revenue and social media presence, tripling revenue three years in a row.