

ALLISON MACKAY

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DATA SCIENTIST / DATA ANALYST

An emerging talent in data science and analysis, with a TS/SCI clearance and experience developing scalable data solutions to meet organizational challenges. Combine a strong interest in analytics, data science, and research with a deep eagerness to deep dive into data rich sources and transform individual data points into larger tactical initiatives that improve quality of service delivery and informed internal decision making.

QUALIFICATIONS & HIGHLIGHTS

- Certified Agile Project Manager, Product Owner, Facilitator, and Coach.
- Fluent in a wide range of statistical and data analysis programs and database tools, including Python, R, Tableau, and SAS; self-taught in programming.
- Applied data science to business-oriented considerations to ensure data-driven decision making.
- Effectively maintain data integrity, evidenced through recognition by leading evaluators for data cleanup and overall platform improvement.
- A natural leader who identifies opportunities for improvement and takes initiative to devise methods to drive workplace productivity, efficiency, and provision of client services.

SKILLS & COMPETENCIES

Data Science | Data Analysis | Project Management | SEO | Social Media Strategy | Website Analytics | R | Python | SAS | SPSS | Tableau | Microsoft Office (Excel/PowerPoint/Word) | Spreadsheets | Vendor Relationship Management | Data Governance | Communication Strategies | Data Integrity | Testing | Database Management | Survey Curation | Survey Analytics | Client Relations | Strategic Planning | Strategic Implementation | Agile | Leadership | Planning

CERTIFICATIONS

ICAgile | IC-ACP | IC-MPO | IC-AFC | Security + (In Progress)

EDUCATION

SAINT LOUIS UNIVERSITY | ST. LOUIS, MO

Master of Science, Health Data Science (2018)

SRP Cup Research Finalist | R Ladies chapter member

Bachelor of Science, Communications Sciences and Disorders (2015)

Dean's Scholarship | Founding Member of Best Buddies Program | VP of Fellowship, Alpha Phi Omega

PROFESSIONAL EXPERIENCE & INTERNSHIPS

Booz Allen Hamilton | San Antonio TX
Senior Consultant, Data Science

2022-Present

Assisting various parts of the United States Air Force 67th Wing, 318th Cyber Operations Groups in updating, standardizing, analyzing, and protecting their data.

- Solidified a relationship with software vendor, Elastic, to work towards the common goal of mitigating risks while increasing Airmen productivity, increasing data visibility, and giving a holistic picture of AF readiness and capabilities at any given point in time
- Represented the 67th Wing in several conferences and sprints to redesign and implement a new tracking system for trainings during one's career at the Air Force. This tracking system will then be used to produce a variety of dashboards and analytical reports for stakeholders and decision makers
- Lead a Wing wide initiative to migrate the Wing to a cloud-based environment
- Continuously representing the 318th Cyberspace Operations Group as the Lead Data Scientist, responsible for

developing and recommending policies and guidance related to transforming group activities from a network-centric to a data-centric environment, developing modern policy change requests for implementation by the larger Air Force, and leading the discussion and decision making for development, implementation, and sustainment of data storage and analysis

- Produced a Data Analytics and Implementation Plan, which will be used to track and guide the phases of implementation of various projects that are more focused on a data-driven, agile approach
- Identifying and guided the purchase of state-of-the-art tools to be used by 318 COG staff members to develop and produce data visualization methods to improve and automate business processes across the group
- Created a strategy document to assist the client in understanding the phases of the projects, how they would overlap, and what additional staffing would be needed to deliver the desired products
- Assisting clients in creating data lakes, data sets, and data plans
- Moving clients to platforms approved by the Chief AI and Data Officer's Data Fabrication Memo
- Presenting various plans to the COG and facilitating discussion with clients to improve the culture and assist the 67th Wing in moving to a more modern, agile workforce
- Hiring new talent to assist in both completing current work and future projects
- Serving as the technical point of contact for multiple projects at the COG, Wing, and National Air Force level

LMI | Washington DC

2021-2022

Senior Consultant, Data Science

Assist various groups within the United States Army with analyzing data, creating reports, automation, and other understanding both the data they have and how to utilize it to make high level business decisions.

- Created report templates based on the current needs of each client then automating the process to ensure a user-friendly process
- Authored client facing documents that provide high level updates about the team's findings, status, unexpected hurdles, and tentative plan moving forward
- Reviewed code workbooks and repositories to help the team determine where deficiencies are and what improvements could be made to ensure we had a flexible and reproducible product
- Attended bi-weekly meetings with the LMI Advance Analytics and Artificial Intelligence service line director to discuss the project, potential future projects, and potential growth opportunities for the team
- Learned Java Script to better assist our data engineers when they need feedback or are unable to find issues within their code and need a reviewer

United States Secret Service | Washington DC

2020-2021

Statistician

Analyzed, reviewed, developed, and implemented strategies to modernize reports, data analysis, and every day workflow.

- Represented the Department of Homeland Security on the government wide National Security Council consisting of representatives from all agencies working to standardize processes, update processes, and implement processes
- Created a strategic plan for the National Security Council consisting of ways to hire and retain competitive STEM employees. Congress passed a resolution to start implementing a portion, a unique pay scale, as of FY23
- Co-owner and creator of a centralized data analytics repository for the agency
- Co-creator of the contract employee tracking system and executive summaries that included data to assist upper management in making decisions based on current and future budgets, current and future manpower needs, and other KPI's
- Finalist for the Director's personal data scientist detail resulting in several mentor offers and notable project opportunities
- Created implementation plans then planning and overseeing meetings with collaborating peers and departments to ensure timely release of new platforms, surveys, analysis, and reports
- Created analytical dashboards with the CIO team with the goal of all directorates using the intranet page to access data

- Assisted the CIO team with developing a platform for users to code their own projects, determined which packages would be most useful based on previous experience, and implemented the new platform agency wide
- Curated several surveys (hires, separation, COVID, etc.) and developing dashboards with modern metrics and visualizations for upper management to reference as they make decisions for the organization
- Communicated project status and metrics to the directors during project reviews
- Assisted in pulling and analyzing data to create the Human Capital Strategic Plan
- Produced quarterly reports for OMB that show metrics such as total manpower, hours of overtime, cost of overtime coverage, number of POTUS/VPOTUS visits, as well as others. These reports are later used to determine things including, but not limited to projected budget for the next FY based on number of employees, number of employees who used certain benefits, and projected overtime hours

Ascension | Saint Louis, MO

2018-2020

SEO Specialist and Analyst

Analyze, review, and implement strategies to optimize search engine access to websites. Develop research and data-centered projects to provide critical information to guide decision making that drives fulfillment of organizational goals.

- Extracted data from reviews and online forums using Python and performed to determine customer talking points expressed in online forums
- Used customer reviews to examine customer feedback to identify areas for product and service improvement.
- Performed social media mining using Python, and applied text analytics to determine customer talking points expressed in online review including Healthgrades and Google
- Conducted various testing methods in design, layout, and advertising techniques in order maximize traffic.
- Recognized by industry leader Reputation.com for data cleanup and overall website improvement
- Integrated data science analysis into evaluation of site performance metrics to better align communication and marketing strategies with data metrics
- Communicated project status and metrics to management during project reviews
- Participated in user training, trouble shooting, and user support for the website
- Managed a team of coordinators and delegate tasks such as data clean up, content curation, and website audits by market

Marketing and Communications Intern

Assisted national marketing team in the creation of a create a national physician database to facilitate rebranding of ambulatory facilities under one unified brand.

- Analyzed social media data and created spreadsheets to track of social media response rates by market, as well as the percent of positive and negative reviews
- Built templates and executed bulk uploads for ministries to ensure large and accurate data pushes each week
- Corrected and entered all data to be pushed to the national website to increase search engine optimization
- Developed reports on online review ratings, responses, social media posts, and overall reputation score
- Created engaging social media posts for the national page, and responded to reviews from previous and current patients on the national social media platforms

SSM Hospital Systems| Saint Louis, MO

2017 to 2018

Clinical Data Intern

- Worked alongside the Chief Medical Officer, analyzed data points to isolate areas for clinical improvements needed to reduce the number of surgical site infection rates and readmissions
- Used a dataset based on emergency medical records, created graphs and analysis reflecting data published by the national surgical site infection database (NSQIP), to identify correlations between infection rates and readmissions versus predetermined factors including age, race, and gender
- Created engaging visual presentations to represent findings and data and highlight potential areas of improvement in post-op education for patients to help reduce readmission rates and costs

SSM Health | Creve Coeur, MO

2016 to 2017

Clinical Data Intern

- Collaborated with analytics teams within clinical education departments at three area hospitals (St. Mary's Hospital, Saint Louis University Hospital, and Saint Clare's Fenton Hospitals) to assess the overall effectiveness of clinical education models and trainings
- Tracked clinical compliance by department in Excel spreadsheets, and conducted three-month, post-presentation follow-up audits
- Utilized R and Tableau to create visualizations demonstrating increases in compliance and the overall effectiveness of clinical trainings and retraining for caregivers and providers
- Scheduled a variety of critical department functions, including clinical trainings, educational events, and info sessions
- Created Gantt charts to give a definitive timeline for education throughout the Saint Louis Network

A D D I T I O N A L E X P E R I E N C E

Volunteer | Cardinal Glennon Children's Hospital & McCallum Place Eating Disorder Center | Saint Louis, MO **2011-2019**
Assisted in the rehabilitation of child trafficking victims through various types of therapy (these therapies included, but are not limited to behavioral, speech, and feeding therapy). Developed care plans, assisted in documenting client progress after sessions, created and maintained a safe environment for victims.

Manager | STL Workout | Saint Louis, MO **2018-2019**
Managed client engagement, ensuring that all new clients records were updated and accurate. Created and promoted on-site events. Developed and submitted a variety of monthly reports for expenses, traffic, and sales. Performed nightly inventory and cash reconciliation.

Senior Sales Associate | COACH | Frontenac MO **2018-2019**
Oversaw client outreach, retention, and satisfaction by implementing referral and post-purchase satisfaction programs. Maintained visually appealing merchandise floor sets that appropriately featured new items.