

# Dawn Graham

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**Boston, MA**  
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**Portfolio /** [dawngraham.github.io](http://dawngraham.github.io)

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## Skills

**Technical /** Python - Data Wrangling - Web Scraping - Data Analysis - Data Visualization - Machine Learning - Natural Language Processing - Tableau - SQL - HTML/CSS - Git/GitHub  
**Additional /** Project Management - Participatory & Human-Centered Design - Advocacy - Curriculum Development - Facilitation - Research - Graphic Design

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## Selected Experience

**Data Engineer /** Jul 2019 - Present  
MASSMUTUAL, BOSTON, MA

Focus areas include building and maintaining data structures and databases, data mining and warehousing, designing processing systems and algorithms, enabling machine learning, and security and compliance. Led a team of 12 to deliver a report with summary statistics, analysis, and visualizations of more than 20 years of data from the National Data Archive on Child Abuse and Neglect (NDACAN). Support the migration from legacy database systems, optimize processes to meet service-level agreements, and automate business processes. Mentor junior data engineers.

**Data Science Fellow /** Oct 2018 - Feb 2019  
GENERAL ASSEMBLY, BOSTON, MA

Completed 480-hour immersive program to apply statistics, programming, data analytics, and modeling skills in different real-world contexts. Created a regression model to predict real estate sale prices. Used natural language processing to classify fake news headlines. Identified power outages through social media activity using time series analysis and natural language processing for a client project. Used web scraping, sentiment analysis, and regression modeling to identify predictors of active timebanks. Gained experience with clustering, decision trees, Bayesian inference, and more.

**Media & Prevention Specialist /** Oct 2015 - Oct 2018  
WAYSIDE YOUTH & FAMILY SUPPORT NETWORK, WATERTOWN, MA

Developed and implemented environmental strategies related to HIV and substance misuse prevention at UMass Boston. Synthesized data from focus groups, surveys, events, and web analytics to derive understandings about programs, priorities, and actionable steps. Aligned Youth Risk Behavior Survey questions across four communities to improve insights between local, state, and national data. Facilitated high school peer leadership groups focused on youth empowerment, wellness, and racial equity. Trained youth in interpretation and ethical use of data.

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## Other

**Contributing Writer /** *Towards Data Science* magazine / Nov 2018 - Present

**Volunteer /** Code for Boston, Safe Drinking Water & Clean Slate Projects / Dec 2018 - Jul 2020  
/ Data for Black Lives II conference at MIT Media Lab, Cambridge, MA / Jan 2019

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## Education

**Boston University /** Master of Science in Computer Science, Data Analytics Concentration / 2022  
/ Database Management & Business Intelligence Graduate Certificate / 2020