JAY BROWN

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EDUCATION

University of Michigan   **Ann Arbor, Michigan**
BACHELOR OF SCIENCE IN INFORMATION **(GPA: 3.64/4.0)**   *Expected Dec. 2021*

EXPERIENCE

University of Michigan   **Ann Arbor, Michigan**
DATA ENGINEERING INTERN   *Oct. 2020 – Present*
• Led team of 4 in automating data collection & processing protocol for data pipeline, reducing manual workload by 40%.
• Ingested data from disparate data sources using a combination of MYSQL, Python, and Django web framework.
• Handled development and management of front end user interfaces with help of HTML, CSS and JavaScript.

DATA SCIENCE FELLOW   *Aug. 2019 – Dec. 2019*
• Assisted AI department with development of Tandem, a tool that uses data to improve teamwork.
• Collected and analyzed web log data to draw inferences from user behavior and aid UX researchers with product design.
• Developed a sentiment classifier to analyze student survey responses and identify pain points in student project groups.

UNDERGRADUATE RESEARCH FELLOW   *May 2018 – Aug. 2018*
• Conducted 400 hours of research towards the development of an algorithm to detect atmospheric rivers (ARs).
• Wrote Python script to track and perform statistical analysis of high-latitude ARs along the coast of Alaska.

Tim Greimel For Pontiac Mayor   **Pontiac, Michigan**
FIELD DIRECTOR   *May 2021 – Aug. 2021*
• Leveraged statistical methods to identify highly contested districts and inform our voter outreach strategy.
• Coordinated field canvassing efforts, led 40+ volunteers, and achieved a direct voter contact rate of 60%.

University of California   **Berkeley, California**
SUMMER RESEARCHER   *May 2020 – Aug. 2020*
• Explored misinformation and disenfranchisement operations on social media platforms.
• Analyzed and visualized Twitter data using k-means clustering algorithm to detect bot behavior.

Harvard University   **Cambridge, Massachusetts**
TECHNOLOGY SCIENCE RESEARCH FELLOW   *May 2019 – Aug. 2019*
• Wrote a Python script that classifies gender and ethnicity of a person using their first name.
• Collaborated with a team of 10 interns to organize and present research findings to the U.S Congress.

LEADERSHIP

STEMulated   **Auburn Hills, Michigan**
FOUNDER & PRESIDENT   *Aug. 2017 – Aug. 2018*
• Founded a student organization that targeted increasing diversity in STEM (20+ members).
• Organized and led computer programming and college readiness workshops at local inner-city school (40+ students).
• Hosted panels by professional speakers to increase interest of underrepresented minority groups in STEM (60+ students).

Baldwin Center   **Pontiac, MI**
ADULT EDUCATION COORDINATOR   *May. 2015 – Feb. 2017*
• Tutored 50+ adults in mathematics, language arts, and science topics.
• Led an after-school program that targeted increasing the math and literacy rates in an inner-city school district (40+ students).
• Designed and implemented an academic plan for GED program, quadrupled the graduation rate (300+ GED students).

SKILLS

Programming: Python , Java, C++

Libraries: NumPy, SciPy, Pandas, Matplotlib, Scikit, Beautiful Soup, PySpark, Plotly, TensorFlow

Algorithms: Logistic Regression, Linear Regression, Naive Bayes, K-Means Clustering, PCA, Random Forests

Web: HTML/CSS/Javascript, Django, REST, Firebase, Bootstrap

Technologies: Linux, Jupyter, Visual Studios, Excel, SQL, PostgreSQL, MySQL, Git, Bash, JSON, Mapbox