

Jarred Bettencourt

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EDUCATION

Master of Science, Computer Science

January 2022 – May 2023

University of Massachusetts Amherst - Amherst, MA

GPA: 4.0/4.0

- Pursuing Data Science Concentration
- Recipient of UMass Amherst Bay State Fellowship

Bachelor of Science, Computer Science & Mathematics (Double Major)

August 2018 – December 2021

University of Massachusetts Amherst - Amherst, MA

GPA: 3.9/4.0

- Mathematics Concentrations: Applied Mathematics, and Statistics

PROFESSIONAL EXPERIENCE

Teaching Assistant & Grader

January 2022– Present

University of Massachusetts Amherst - Amherst, MA

- Assisting instruction of CS453 (Computer Networking) and CS520 (Software Eng.) at UMass Amherst
- Grading student assignments for CS550 (Intro. to Simulation) at UMass Amherst

Adobe Research Assistant

May 2021– Present

University of Massachusetts Amherst - Amherst, MA

- Using statistical inference techniques to predict model drift in real-time with time-series data
- Reducing financial and environmental cost by improving efficiency of retraining process
- Devising innovative retraining algorithms and procedures for Adobe ML models
- Directly funded and supervised by Adobe Inc. while working under Dr. Peter Haas of UMass Amherst

Web Development Intern

May 2019 – June 2020

Convention Data Services - Bourne, MA

- Developed websites for clients that host trade shows globally with attendance of up to 200,000+
- Collaborated with web development team using Git
- Wrote SQL queries to maintain coherent websites for clients
- Enhanced website QA by introducing automated testing with Selenium WebDriver to QA team

Undergraduate Research Assistant

August 2018 – December 2018

University of Massachusetts Amherst - Amherst, MA

- Examined correlation between antibiotic quantities in food and antibiotic resistance in foodborne pathogens
- Found statistically significant correlation using Numpy and Pandas python libraries
- Presented findings on poster to officials involved with food distribution in Amherst
- Supervised by Dr. Margaret Riley of UMass Amherst

PROJECTS

“Sentiment-Tweeting”

Spring 2022

- NLP application to classify sentiment (positive, negative) of tweets relating to current events
- Engineered architecture of recurrent neural network layers using TensorFlow library
- Achieved 90%+ accuracy on classifying sentiment of tweets in testing set

“MyMediaMix”

Fall 2021

- Website that stored list of in-progress, completed, and planned media (shows, books, movies, music)
- Implemented backend code for proper storage and display of media lists
- Used several APIs (IMDb, Last.fm, New York Times) to allow users to add media items to their lists

SKILLS

Software/Programming: Python, Java, HTML, PHP, CSS, JavaScript (Node.js), SQL, Git, LaTeX, AutoCAD, C/C++, Unix/shell, PyTorch/TensorFlow

Mechanical: Building computers from scratch with materials and basic mechanical tools

Languages: Native in English, Proficient in Spanish with 5 years of formal instruction