Annie Bryan

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Education

Massachusetts Institute of Technology (MIT)   **Cambridge, MA**
B.S. in Computer Science and Engineering with a Minor in Spanish, GPA: 4.9/5.0   Class of 2022
Coursework: Elements of Software Construction, Embedded Systems, Algorithms and Data Structures,
Artificial Intelligence, Computational Thinking and Data Science, Differential Equations

Skills and Interests

Tools: Python, Java, C/C++, MATLAB, R, SQL, HTML5/CSS3, LaTeX, Mathematica, Git, Bash
Interests: Machine Learning, Data Analysis, Statistics
Foreign Languages: English (native), Spanish (working proficiency)

Experience

MathWorks   **Natick, MA**
Engineering Development Group Intern   May 2020 - present
- Working on the application FileExchange, reviewing and testing peer code, Agile Software Development practice

Universidad Politécnica de Madrid   **Madrid, Spain**
Undergraduate Research Assistant   June 2019 - Aug 2019
- Explored topics in graph theory with a focus on dynamic phone networks from Senegal using R and Python software
- Evaluated correlation coefficients between properties including connectivity, transitivity, and reciprocity

MIT Department of Mechanical Engineering   **Cambridge, MA**
Undergraduate Research Assistant   Feb 2019 - Jul 2019
- Developed machine learning tools with MATLAB and Python software to predict and extend machine lifetime
- Constructed a program to take in sensor data from a machine that minimized the cost error function with TensorFlow, with both gradient descent and stochastic gradient descent

Projects

MIT - Interconnected Embedded Systems   **Cambridge, MA**
Final Project   March 2020 - present
- Developing TEMPO, a fitness device that retrieves a song from Spotify's API matching the user's running speed and music preferences and plays that song to the user's device.
- Collaborating with 4 other students and coordinating weekly goals.
- Using technologies including Arduino, C++, Python, SQLite3, HTML, Git

Leadership

Women's Varsity Volleyball   **Aug 2018 - present**
- Practice 10 hours per week, compete in matches in season as a middle blocker, coordinate strategy, motivate teammates, condition and train in the off season

IEEE/ACM Faculty Relations Chair, Secretary   **Sep 2019 - present**
- Organize and plan 3-4 events throughout the semester including faculty-student dinners and research fairs
- Facilitate interactions between faculty and students of the MIT Computer Science department
- Manage and allocate an annual budget of $2,000

MIT Wind Ensemble   **Jan 2019 - Apr 2020**
- Played second chair clarinet, assisted the rest of the section, and demonstrated preparation of music repertoire

CYC Volleyball Head Scheduling Coordinator   **Aug 2016 - Oct 2017**
- Managed conflicts of 20 referees and developed a weekly work schedule with Excel spreadsheet software

Awards and Recognition

- Named to the 2019 NEWMAC Academic All-Conference Team
- National Merit Scholarship Recipient
- Kirkwood High School Salutatorian Class of 2018
- Performed at Carnegie Hall as first chair clarinet, 2017