Annie Bryan

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EDUCATION

Massachusetts Institute of Technology (MIT) **Cambridge, MA**
B.Sc., Double major in Computer Science and Mathematical Economics *2018 — 2022*
GPA: 4.8 / 5.0

TECHNICAL SKILLS

Languages: Python, Java, C/C++, Ruby, PHP/Hack, HTML, CSS, JavaScript, MATLAB, R, Julia, Stata
Frameworks/Libraries: Ruby on Rails, React, Vue, Express, Node, Flask, TensorFlow, MySQL, MongoDB
Tools: Git, Perforce, Mercurial, Docker, Visual Studio Code, PyCharm, IntelliJ, Eclipse

EXPERIENCE

Facebook **Summer 2021**
Software Engineering Intern *Menlo Park, CA*
- Integrated a tagging feature to an internal tool for curating and uploading authoritative news content
- Met with cross-functional stakeholders and team members to design full-stack software feature specifications

MathWorks **Summer 2020**
Software Engineering Intern *Remote*
- Developed full-stack customer-facing web applications; pushed code to production for >1000 users per day
- Drafted thorough documentation for testing plans, requirements, use cases, and functional/architectural design
- Generated UI wireframes for new workflows, presented designs to users, and integrated feedback

Universidad Politécnica de Madrid **Summer 2019**
Data Science Research Assistant *Madrid, Spain*
- Explored topics in graph theory with a focus on dynamic phone networks from Senegal
- Constructed models around cleaned datasets and compared effectiveness of each model
- Evaluated correlational coefficients between properties including connectivity, transitivity, and reciprocity

PROJECTS

Interface for Machine Learning Interpretability | *React, NLPaug, TensorFlow, sklearn* **Sep 2021 — May 2022**
- Created a UI for users to build NLP models, define and run test cases, and visualize the results

Stance | *VueJS, ExpressJS, NodeJS* **Nov 2021 — Dec 2021**
- Designed and implemented a web app for political candidates to communicate with voters about relevant issues

Interlock for Self-Driving Cars | *Python, numpy, open3d, skimage, ffmpeg, CARLA* **Sep 2020 — May 2021**
- Devised a path prediction algorithm to check if an autonomous vehicle will collide with any objects in its path
- Tested the self-driving system in various scenarios using open-source autonomous driving simulation software

G Suite Dashboard | *JavaScript, Google AppsScript* **Jan 2021**
- Consulted with a local educational non-profit to identify their needs and design and deploy an effective solution
- Built an application to automate reminder emails, reducing the time needed by nonprofit volunteers by 95%

Tempo | *C++, Python, SQLite, Arduino* **Mar 2020 — May 2020**
- Created a fitness device that plays a song to a user's device based on their running speed and music preferences
- Implemented the back end to read step frequency and make HTTP requests to Spotify's REST API
- Developed a web UI that allows a user to perform CRUD operations on their database of past runs and playlists

Artificial Synapses for Large-Scale Neuromorphic Arrays | *MATLAB, Python, TensorFlow.* **Feb 2019 — May 2019**
- Developed machine learning tools to predict and extend machine lifetime

LEADERSHIP

VP of New Member Education for Phi Sigma Rho Sorority Feb 2021 — Apr 2022
Computer Science Tutor for HKN Honor Society Sep 2020 — May 2021
Undergraduate Representative on MIT Committee on Curricula Sep 2020 — May 2021
MIT IEEE Exec Board Officer Sep 2019 — May 2021
MIT Women's Varsity Volleyball Aug 2018 — Nov 2021
- CoSIDA Academic All-America, AVCA All-America, NEWMAC Conference Tournament MVP