Annie Bryan

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github.com/anniebryan

EXPERIENCE

Meta — **Sep 2022 - Nov 2022**
Software Engineer — *Boston, MA*
- Contributed to a number of internal full-stack projects, working mostly in React, GraphQL, and PHP
- Designed and implemented a user interface for an ML document-processing service as a Hackathon project

Muninn — **Summer 2022**
Cybersecurity Intern — *Copenhagen, Denmark*
- Wrote scripts to analyze network traffic, detect malicious behavior, and alert users of potential threats
- Developed metrics to improve the fit of an anomaly detection model while maintaining generalizability

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

MathWorks — **Summer 2020**
Engineering Development Group Intern — *Remote*
- Developed full-stack customer-facing web applications; pushed code to production for $> 1{,}000$ users per day
- Drafted thorough documentation for testing plans, requirements, use cases, and functional/architectural design

Universidad Politécnica de Madrid — **Summer 2019**
Data Science Research Assistant — *Madrid, Spain*
- Constructed models around cleaned datasets; compared effectiveness and accuracy of each model
- Evaluated correlational coefficients between properties including connectivity, transitivity, and reciprocity

SKILLS

Languages: Python, Java, PHP, C++, JavaScript, MATLAB, Julia, R, Stata
Frameworks: React, Vue, Node, Express, Flask, TensorFlow, MySQL, MongoDB
Tools: Git, Docker, Kubernetes, Visual Studio Code, Eclipse, IntelliJ

PROJECTS

Interface for ML Interpretability | *React, NLPaug, TensorFlow, sklearn, keras* — **Sep 2021 − May 2022**
- User interface for users to build NLP models, define training and test sets, and visualize the results

Stance | *Vue, Express, Node* — **Nov 2021 − Dec 2021**
- Web application for political candidates to communicate with voters about relevant issues

Interface 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

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 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

Artificial Synapses for Neuromorphic Arrays | *MATLAB, Python, TensorFlow* — **Feb 2019 − May 2019**
- Developed a neural network to predict and extend machine lifetime

LEADERSHIP

MIT Women's Varsity Volleyball — **Aug 2018 − Nov 2021**
CoSIDA Academic All-America, AVCA All-America, NEWMAC Conference Tournament MVP

VP of New Member Education for Phi Sigma Rho Sorority — **Feb 2021 − Apr 2022**
Schedule and lead new member education sessions for sorority candidates

Tutor for HKN Honor Society — **Sep 2020 − May 2021**
Tutored students in 6.034 (AI), 6.036 (ML), 6.046 (Algorithms), and 6.0001 (Intro to CS in Python)

MIT Committee on Curricula — **Sep 2020 − May 2021**
Discussed and voted on proposals to create or revise undergraduate subjects and programs

MIT IEEE Exec Board Officer — **Sep 2019 − May 2021**
Faculty-Student Chair: Coordinated an undergrad research symposium and social events between faculty and students
Secretary: Took organized minutes at all meetings, followed up on relevant action items, assisted with managing budget

EDUCATION

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