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**

- Created a 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**

- Developed a web application 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 determine 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**
Scheduled and led 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*