# Rebecca McFadden

rmcfadden@tamu.edu | 703-932-3578 | https://github.com/rebeccamcfadden

## EDUCATION

**TEXAS A&M UNIVERSITY** | '22 | BS in Computer Science, Engineering Honors, Tau Beta Pi Honor Society
  GPR: 4.0 | National Merit Scholar and President's Endowed Scholarship Recipient
**LOUDOUN VALLEY HIGH SCHOOL** | '18 | Advanced Studies Diploma
  GPA: 4.26 | National Merit Finalist, Senior Leadership Board Member, Color Guard captain

## SKILLS

**LANGUAGES**:  JavaScript, C++, Python, HTML, CSS, Java
**TOOLS/PLATFORMS**: Git, Linux, Docker, Android Studio
**CLOUD SERVICES/PROVIDERS**: Azure, AWS, GCP, Kubernetes, Kubeflow

## WORK EXPERIENCE

**MICROSOFT, AI PLATFORM EXPLORE INTERN**                                      MAY 2019 – AUG 2019
- Developed documentation for Kubeflow, a Kubernetes toolkit for containerizing ML models, on Azure
- Built sample pipelines using the Azure ML Python SDK for training, registering, and deploying ML models
- Delivered a talk about experiencing Kubeflow from a new user standpoint at Google's Kubeflow Doc Sprint
- Contributed 4 major pull requests to the public Kubeflow repository, including a front-page redesign

**TEXAS A&M INTERFACE ECOLOGY LAB, STUDENT RESEARCHER**                       MAR 2019 – JAN 2020
- Develop Live Mâché: a collaborative ideation platform, and study how users interact with one another online
- Study how users react to different UI and functional features including in-frame video call and live annotation
- Implement new features and fixes in HTML, CSS, and JavaScript

**NATIONAL AIR AND SPACE MUSEUM, EXPLAINER**                                  APR 2017 – MAR 2019
- Perform science demonstrations and answer questions about the science behind the artifacts in the museum
- Brought the science demonstrations outside the museum with community outreach

## PROJECTS

**TAMU DATATHON, "FIESTA FINDER" BACK-END LEAD**                              NOVEMBER 2019
- Utilized a dataset of taco and burrito menu items to develop a location and heuristic based search app
- Developed an algorithm to filter menu items based on distance, ingredient preferences, and allergies
- Finalist for the Goldman Sachs challenge

**TAMU-HACK, WEB JOURNALING APP BACK-END LEAD**                               JAN 2019
- Designed and developed a web-based journaling application with live mental health chat
- Worked to launch a SQL server on the Google Cloud Platform to store user profiles and journal data
- Developed a portion of the front-end HTML and CSS web interface

**AGGIES INVENT, SMART CART APP DEVELOPMENT LEAD**                            SEPT 2018
- Won 3rd place and $500 for Smart Cart, a smart grocery shopping cart integrated app design
- Worked in a team of 5 on a 48-hr app development invention/design challenge by Aruba Networks
- Led the app development team to build a working back-end prototype with Android Studio and Aruba APIs

**GEORGE MASON UNIVERSITY, DUAL-ENROLLMENT RESEARCH PROJECT**                 AUG 2017 – MAY 2018
- Explored undergraduate research and developed an undergraduate research project in high school
- Developed a scientific model to analyze, assess and optimize traffic flow through a suburban intersection
- Presented a model intersection with 35% increased efficiency in a research symposium to professors at GMU

**COMPUTER SCIENCE CAPSTONE PROJECT**                                        SEPT 2017 – JUNE 2018
- Developed lesson plans to teach algorithmic thinking to approximately 100 students ages 9-11
- Used Hour of Code Minecraft labs and lesson plans as inspiration for the outline of the course

## LEADERSHIP

**AGGIE WOMEN IN COMPUTER SCIENCE, MENTORSHIP CHAIR**                         MAY 2019 – CURRENT
- Initiated the Rubies program, a mentorship initiative that pairs underclassmen with upperclassmen
- Coordinate social events, meetings, and bonding events
- Reach out to early in career women to be corporate mentors and pair them with undergraduates

**SOCIETY OF WOMEN ENGINEERS, FUNDS COMMITTEE**                              SEPT 2018 – MAY 2019
- Served on the Funds committee for SWELITES, an engineering-based service and networking organization
- Raised and managed funds in excess of $200 and coordinated 4 fundraising events per semester