

Rebecca McFadden

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EDUCATION

TEXAS A&M UNIVERSITY | '22 | Bachelor of Science in Engineering, Engineering Honors

GPA: 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, Aruba Networks APIs
- Cloud Services/Providers: Azure, AWS, GCP, Kubernetes, Kubeflow

WORK EXPERIENCE

MICROSOFT, AI PLATFORM EXPLORE INTERN

MAY 2019 – AUG 2019

- Develop documentation for Kubeflow, a Kubernetes toolkit for containerizing ML models, on Azure
- Build sample pipelines using the Azure ML Python SDK for training, registering, and deploying ML models
- Deliver a talk about experiencing Kubeflow from a new user standpoint at the Google Kubeflow Conference
- 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 – CURRENT

- 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-HACK, BACK-END DEVELOPER

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, 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

AWICS, 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

LOUDOUN VALLEY MARCHING VIKINGS, COLOR GUARD CAPTAIN

AUG 2016 – JUNE 2018

- Choreograph routine for a 7.5 minute show and run practice
- Served as captain during my junior and senior year