

Rebecca McFadden

20038 Willowin Farm Lane
Purcellville, VA 20132

703-932-3578
rem20806@tamu.edu
GitHub: rem20806

OBJECTIVE: Seeking a Summer 2020 internship position with a focus in software development

EDUCATION

Texas A&M University, College Station, Texas

Bachelor of Science in Engineering, Engineering Honors,
National Scholar and Presidents Endowed Scholarship Recipient

GPA: 4.0

Graduation: May 2022

Loudoun Valley High School, Purcellville, Virginia

Graduated with an Advanced Studies Diploma, National Merit Finalist

GPA: 4.26

Graduated: June 2018

SKILLS

Project experience with Java, Python, C++, HTML, CSS, JavaScript, Git, Linux, and Android Studio
DevOps/ML experience using Kubernetes, Docker, Kubeflow and Cloud Service Providers such as Azure, GCP, and AWS

WORK EXPERIENCE

Explore Intern, Microsoft

May 2019 - August 2019

AI Platform

- 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

Texas A&M Interface Ecology Lab, College Station, Texas

March 2019 – Current

Student Researcher

- 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

Smithsonian National Air and Space Museum, Dulles, Virginia

April 2017 – March 2019

Explainer

- 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

RELEVANT EXPERIENCE

Microsoft Internal Hackathon

July 2019

Game Developer- No-internet Edge Game team

- Designed and produced a JavaScript arcade game with 7 other interns to embed in Microsoft's Edge browser
- Implemented game mechanics features such as collisions, movements, and animations for the sprites

TAMUhack, Texas A&M University

January 2019

Back-end Developer- Hackathon Project Team

- 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, Texas A&M University

September 2018

Back-end Development Lead

- 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 the Aruba APIs

Society of Women Engineers: SWElites, Texas A&M University

September 2018 – Current

Fundraising Committee

- Participate in Engineering-based service, skill building, and networking
- Raised and managed funds in excess of \$200 for the organization

Independent Science Research, George Mason University/Loudoun Valley High School

August 2017 – May 2018

Student Researcher

- Explored undergraduate research opportunities 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

SERVICE

Computer Science Capstone Project

September 2017 – June 2018

Student Teacher, Approximately 100 hours

- 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