Garrett Weston

+1-512-568-6701 | gkweston@tamu.edu | linkedin.com/in/garrettweston

Experience			
Experience			

Mandiant
Secure Software Engineering Intern

Reston, VA — Remote

May 2021 - Aug 2021

- Delivered 2 Go servers for a modular distributed system focussed on security validation and red team engagements
- Developed Python automation tools for module integration saving analysts approximately 6 hours weekly
- Attended international client meetings, learning how to synthesize feedback into an Agile SDLC

Dell Technologies

Austin, TX – Remote

Software Engineering Intern

May 2020 - Aug 2020

- Generated a new feature extraction method which minimized around 90% of required training data, while maintaining f-score, by implementing surrogate modeling, similar to an approach later presented at ICML 2020
- Maximized model f-score to 0.98 by utilizing explainable AI frameworks for random forest, gradient boosted tree models, while delivering an easy-to-understand documentation repository

Texas A&M Computer Science

College Station, TX

Peer Teacher

Feb 2020 - May 2021

- Delivered interactive programming files which save PTs 1-3 hours per shift by covering common learning cases
- Contributed to edge-case coverage of a Discord student-queue, optimizing PT shifts by 1-2 students per session

ACELab Undergraduate Research Assistant

Aug 2019 - Jan 2020

Optimized data preprocessing methods for machine learning biometric monitoring systems to aid Veterans with PTSD

Projects ____

MITRE eCTF (2021) Team Lead for secure messaging platform on embedded devices using C, Rust, Python with Docker emulation

- Achieved 2nd place nationwide, scoring special category points, for a platform scaling to 2¹⁶ embedded devices
- 3 month CTF including system design/development, and attack phase tasking teams with exploiting other designs

Exability (2021) Diet and exercise webapp supporting disabled users and dietary allergies, designed in Figma, and built from scratch

- Includes Spotify, weather, user profiles and recommender system for daily calories, exercises and recipes
- Deployed on AWS using HTML5/CSS, JavaScript, API Gateway, Lambda, DynamoDB and other third-party APIs

Bokehbox (2021) Personal website for experimenting with modern design and deployment paradigms built with React

Platform for showcasing photography and tech portfolio along with professional profiles deployed on AWS

MindSplice (2019) Multiplayer puzzle game where users must cooperate to solve challenges before facing off in a battle royale

48 hour video game hackathon project in Unity Engine, delivered player scripting, level design and music

Datathon (2019) Implementation of A* shortest path for Black Friday shopping, predicting oil-drilling failures with XGBoost

• Top ten finish, succeeding at two challenges in 24-hour data science oriented hackathon

Ed	ш	ca:	tı	n	n	1
L	ч	ca	L	0		_

Texas A&M University, College Station, Texas

May 2022

Bachelor of Science in Computer Science

3.70 GPA

Cybersecurity Minor, Dean's Honor Roll, Machine Learning, Operating Systems, Network Security

Skills _____

Programming Languages: C++, Python, Go, Rust, C, SQL, NoSQL, JavaScript, Node.js, Bash

Tools and Technologies: Git, REST APIs, AWS, Docker, React.js, Node.js, HTML/CSS, XGBoost, OpenCV, TensorFlow, PyTorch

Activities and Experience: Chillenium, Facebook Datathon, Robomasters, Student Disability Services Volunteer