

Clay McGinnis

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Objective: To leverage my experience in Computer Science at Missouri S&T in a Software Engineering internship or Co-op in the summer of 2019

Education:

Missouri University of Science and Technology (Missouri S&T) **May 2020**
B.S. Computer Science 3.5 Cumulative GPA
Courses: Operating Systems, Algorithms, Data Structures, Linear Algebra, Statistics with R

Experience:

CEADS-LIN: Artificial Intelligence and Cybersecurity Research Rolla, MO
Research Assistant Feb. 2018 — Present

- Developed a system using AMQP and Python to distribute evolutionary computing experiments across a containerized network
- Built Javascript based web visualization tools to monitor network traffic and analyze evolutionary algorithms in real time
- Contributed to platform presented in academic research publications published at cybersecurity conferences

Missouri S&T — ACM Rolla, MO
Vice President Apr. 2018 — Present

- Managed 4 group leads in funding and organizational efforts, and maintained timelines for events with over 120 attendees

Missouri S&T — ACM SIGWEB Rolla, MO
Vice Chair Dec. 2016 — Present

- Implemented the user interface of the MST-ACM website in React.js for tracking and organizing events for an organization with over 200 members
- Developed REST API in Python to store and manage users and payments using test-driven development practices
- Taught students skills in Python and HTML/CSS which resulted in a large boost in productivity in our code base

Projects:

All projects listed below are on my GitHub

ShamHacks 2018 — VeteranIn: (Received 2nd Place out of 50 teams) Feb. 2018
Business focused network for Military Veterans to find jobs or employees

- Wrote API for storing Veterans and Veteran-owned companies in Python
- Used Leaflet.js to map nearby Veteran businesses

Personal Project — Swoly: Jan. 2018
Fitness app to log and compute ideal workouts based on personal bests

- Developed for Android in Java and SQLite

TrumanHacks 2018 — DebateMingle: Feb. 2018
Anonymous chat app for debating trivial (non-political) topics

- Developed efficient netcode using WebSockets in Python and Javascript

ACM Website: (<https://acm.mst.edu>) Present
Website for listing MST-ACM events, storing membership info, and processing payments

Technical Skills:

Listed in descending order of familiarity

Languages:	Python	C++	Golang	JavaScript	HTML/CSS	Bash	R
Tools:	Git	Unix	AWS	Unit Testing	LaTeX		

Honors and Activities:

Megaminer AI Dec. 2017
2nd place among 30+ other teams — Programmed a game AI in Python

Local Hack Day Dec. 2017
2nd place — Developed a multi-threaded Golang chat server which also implemented multiplayer pong