

Clay McGinnis

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Objective: To obtain an internship in the field of Computer Science in the Summer of 2020.

Education:

Missouri University of Science and Technology (Missouri S&T)
B.S. Computer Science

December 2020
3.5 Cumulative GPA

Relevant Courses: Software Engineering, Operating Systems, Algorithms, Data Structures, Databases, Data Mining

Experience:

CEADS-LIN: Cybersecurity and Evolutionary Computing Research

Rolla, MO

Research Assistant with Dr. Daniel Tauritz

Feb. 2018 — Present

- Developed part of a system using Python and Celery to execute evolutionary computing experiments by distributing agents across a cluster of containerized networks
- Built web visualization tools in React.js to monitor containerized network traffic and analyze evolutionary experiments in real time
- Contributed to academic papers describing how our platform detects network defense strategies

Multicopter Robot Design Team

Rolla, MO

Chief Software Engineer

Feb. 2019 — Present

- Managed a team of 13 software developers in creating real-time autonomous software for a quad-copter resulting in acceptance to the International Aerial Robotics Competition
- Coordinated real-time swarming tactics for four autonomous quad-copters flying simultaneously using servers and clients written using TCP in Python

Edward Jones Investments

St. Louis, MO

Software Engineering Intern

May. 2019 — Aug. 2019

- Created full-stack updates for internal tool used 700,000 times per day in JavaScript and Java
- Performed inquiries and patches for long-standing bugs and stability issues affecting thousands of staff members

Missouri S&T — ACM

Rolla, MO

Vice President Internal

Apr. 2018 — Present

- Managed 7 organization leads in funding and organizational efforts, and maintained time-lines for company talks, cybersecurity competitions, and instructional seminars with over 120 attendees

Notable Projects:

All projects listed below (and more) 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 S&T ACM events, storing membership info, and processing payments

Technical Skills:

Listed in descending order of familiarity

Languages:	Python	C++	JavaScript	Golang	Bash	R
Tools:	Git	Unix	Unit Testing	AWS	L ^A T _E X	Vim

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