Clay McGinnis

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Objective: To obtain a full time Software Engineering job in the Early Spring of 2020.

Education:

Missouri University of Science and Technology (Missouri S&T) **December 2020**
B.S. Computer Science 3.5 Cumulative GPA

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

Experience:

Amazon.com — Seattle, WA
Software Development Engineer Intern — May. 2020 — Aug. 2020

- Modernized metrics publishing to be more granular resulting in diagnostics for hundreds of thousands of service calls
- Created dashboard for diagnosing slowdowns and errors utilizing newly acquired data

CEADS-LIN: Cybersecurity and Evolutionary Computing Research — Rolla, MO
Research Assistant with Dr. Daniel Tauritz — Feb. 2018 — Aug. 2019

- Built 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

Multirotor Robot Design Team — Rolla, MO
Chief Software Engineer — Feb. 2019 — May 2020

- Managed a team of 30+ software developers in creating real-time autonomous software for an octo-copter resulting in acceptance to the International Aerial Robotics Competition
- Coordinated real-time, high speed artificial intelligence for an octo-copter flying at 70 mph using a state-machine and multi-threading

Edward Jones Investments — St. Louis, MO
Software Engineering Intern — May. 2019 — Aug. 2019

- Created full-stack updates for internal tool used 700,000 times a day using 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
ACM Web Chair — Jan. 2020 — Present

- Managed 14 engineers in building websites and tools for our ACM branch resulting in better recruitment, advertising, and analytics.
- Built full-stack features for ACM's services in TypeScript, React.js, and Koa.js

Notable Projects:

All projects listed below (and many more) on my GitHub

ShamHacks 2018 — VeterIn: (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 - Dec. 2020
Fitness app and terminal system to compute ideal workouts based on personal bests

- Developed for iOS and Android in React Native

Technical Skills:

Listed in descending order of familiarity

Languages:	TypeScript	Python	C++	Golang	Bash	R
Tools:	Git	Unix	Unit Testing	Cloud Computing	LaTeX	Vim

Honors and Activities:

ACM Vice President Internal — Apr. 2018 - Apr. 2019
Managed 7 organizations in funding, time-lines, and planning for events hosting 120+ attendees

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