

Clay McGinnis

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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, Artificial Intelligence

Experience:

Amazon - Alexa Communications
Software Development Engineer I

Seattle, WA
May. 2021 — Present

- Implemented customer-facing features and logic for a new Alexa (VUI) product in Java
- Developed integration tests and observability systems for new CI/CD services in AWS
- Created screens and flows for the Alexa mobile app in TypeScript React Native

Amazon - Alexa Communications
Software Development Engineer Intern

Seattle, WA
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
Research Assistant with Dr. Daniel Tauritz

Rolla, MO
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
Chief Software Engineer

Rolla, MO
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
Software Engineering Intern

St. Louis, MO
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
ACM Web Chair

Rolla, MO
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

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

Honors and Activities:

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

Apr. 2018 - Apr. 2019

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

Dec. 2017

Local Hack Day
2nd place — Developed a multi-threaded Golang chat server which also implemented n-player pong

Dec. 2017