

COLIN SMITH

colinasmith27@gmail.com • 816 4901192 • www.linkedin.com/in/colin-a-smith270 • www.casdev.org

EDUCATION

BS Computer Science
Missouri University of Science Technology | Rolla, MO
GPA — 4.0

Anticipated: May 2026

EXPERIENCE

Software Engineer Intern
Garmin | Olathe, Kansas

Jan 2024 - Present

- Developed a full stack application by utilizing Electron to parse compressed h265 videos with a custom c++ node module for metadata and overlay that metadata onto the decompressed video.
- Contributed to the GIFD3 project by creating solutions to bugs on the Connex app, implementing the solutions, and driving the associated Change Requests to closure.
- Facilitated timely project delivery by assisting team members in resolving issues and driving their Change Requests to closure, ensuring adherence to project timelines

Command and Data Handling Systems Developer | Guidance Navigation and Control Developer
Missouri Science and Technology Satellite Research Team | Rolla, Missouri

Aug 2023 – Aug 2024

- Planned, developed, and facilitated the conversion of all Guidance, Navigation, and Control (GNC) code for Mr. Sat from MATLAB to C++
- Developed and implemented a modular testing system for the updated GNC code, significantly enhancing the efficiency and accuracy of code testing procedures.
- Improved integration testing capabilities by updating the "Day in the Life" testing interface for Mr. and Mrs. SAT
- Engaged actively in weekly meetings, promoting effective project coordination

iOS App Development Intern Cerner Scholar
Oracle Cerner | Kansas City, Missouri

Jan 2023 - May 2023

- Contributed to iOS Messenger app by updating the code from objective c to swift
- Upgraded iOS Messenger app dependencies
- Documented all changes made to the iOS messenger app
- Collaborated with teammates during weekly scrum meetings and provided updates on current state objectives
- Managed tracking of personal project tasks and objectives using Jira

PROJECTS

AI Pathfinding Algorithm and Website

- Designed and implemented a custom pathfinding algorithm using Python for path visualization, map processing, and path generation to help students, teachers, and other personal navigating Blue Springs High School, enhancing the efficiency of class-to-class navigation
- Created an intuitive user interface using React, allowing users to input starting and ending points and promptly displaying optimized paths
- Successfully orchestrated the deployment of the Flask API on a personal Linux server and the frontend on AWS, strategically ensuring scalability for future demand

SKILLS

- | | | |
|----------|--------------|-----------------------|
| • Python | • JavaScript | • iOS App Development |
| • C++ | • HTML/CSS | • Git |
| • C | • React | • Embedded Systems |

HONORS AND AWARDS

- | | |
|---|----------|
| • Honors College
Missouri University of Science and Technology | Aug 2023 |
| • Kummer Vanguard Scholar
Missouri University of Science and Technology | Aug 2023 |
| • Graduating Class — Top 1%
Blue Springs High School | May 2023 |