Lucas Gehner

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Education

Missouri University of Science & Technology	Expected Graduation: May 2027
B.S. Computer Science	**GPA: 3.9/4.0**

- Kummer Vanguard Scholar | Honors Academy Member
- Chair, ACM Web Development Club | General Member, ACM

Relevant Skills/Coursework

Programming Languages: Python, C++, Java, Bash, JavaScript, HTML/CSS
Developer Tools: Git/GitHub, VSCode
Frameworks/Libraries: React, Vite, Node.js, FlaskAPI
Coursework: Data Structures, Algorithms, Operating Systems, Theory of Computer Science
Current Courses: Micro Controllers, Computer Networks, Intro to Databases, Programming Languages and Translators

Projects

Slotify | React, HTML/CSS, JavaScript, Spotify API, Git/GitHub   March 2025

- Developed Slotify, a Wordle style web game in 36 hours at a Hackathon, collaborating with a team of 2 developers to deliver a working prototype on time.
- Implemented a React.js frontend with Spotify Web API and Playback SDK, enabling seamless playlist input, song retrieval, and real-time audio playback.
- Designed a Wordle-style guessing system with dynamic result feedback, improving user engagement by providing constant visual validation of guesses.
- Optimized API calls to handle playlists of 100+ songs efficiently, ensuring responsive gameplay and minimizing latency.
- GitHub Link: https://github.com/lukeball1/Pickhacks-Project | Devpost Link: https://devpost.com/software/slotify

ImageCrypt | C++, Python, Raspberry Pi, Git/GitHub   July 2025

- Built a steganography system that encrypts and embeds hidden messages into image files using customer bitwise algorithms.
- Optimized for Raspberry Pi, demonstrating efficiency in low-resource environments while ensuring accurate encryption/decryption.
- Delivered a command-line interface for seamless message encoding and retrieval, improving usability for end-users.
- GitHub Link: https://github.com/lukeball1/SteganographyV1

Experience

Saint Louis Zoo	Saint Louis, MO
One Health Intern	Feb 2023 – May 2023

- Led a team of 4 interns to develop and enhance Science education modules for high school students.
- Designed interactive lessons and experiments emphasizing data analysis and the One Health framework.
- Increased student engagement by creating hands on, inquiry driven assignments that bridged biology, environment, and public health ideas.

Hazelwood West Robotics Team	Hazelwood, MO
Head of Programming	Sep 2021 – Mar 2023

- Directed programming efforts for the FIRST Tech Challenge robotics competition, delegating tasks and mentoring junior developers.
- Developed autonomous robotics code using Java, integrating Vuforia, TensorFlow, and custom TensorLite models.
- Authored comprehensive documentation to ensure long-term sustainability and facilitate training for new team members.