Chico, CA • +1 530-949-0158 • 08lbutler31@gmail.com

github.com/r-butl • linkedin.com/in/lucas-butler-bb52b119b

Lucas Butler

Summary

Enthusiastic Software Engineer with a strong background in Computer Engineering and Computer Science. Proven experience in software development, machine learning, and system integration. Passionate about building innovative solutions that contribute to high-performance applications in real-world environments.

Skills

Programming: Python, C++, C, SQL, TypeScript, JavaScript
Frameworks/Tools: TensorFlow, PyTorch, OpenCV, Docker, Singularity
Technologies: AWS, PostgreSQL, Flask, React, Git
Other: Machine Learning, Data Analysis, Robotics

Work Experience

Software Engineer

Sandia National Laboratories, Albuquerque, NM • Sept '23–Present

- Developed a data extraction pipeline that automates resume screening, reducing manual workload for HR while enhancing efficiency.
- Applied LLMs for requirements analysis and issue detection, anticipating significant cost savings for the organization.

Manufacturing Engineer Intern

SMC, ltd, Santa Rosa, CA • May '22–Aug '22

- Created innovative solutions in PLA pellet mixing, leading to a $12,000 cost reduction.$
- Improved operational efficiency by standardizing designs for automated systems.

Projects

Signal Processing GUI (github.com/r-butl/CarePackage)

- Developed a GUI for 1D signal processing pipelines using Python, enhancing visualization for engineering workflows.

Elephant Listening Project (github.com/r-butl/ELP-CNNvsRNN)

- Led a research project that achieved 95

Education

California State University, Chico, CA
B.S. in Computer Engineering (Minor in Computer Science) (Aug '21 – May '24)
GPA: 3.85, Coursework: Embedded Systems, Machine Learning, Robotics

Leadership & Awards

Awards: Cum Laude (2024), Computer Engineering Faculty Award (2024), 1st Prize Formula SAE Cost Presentation (2023)
Leadership: Captain of Men's Club Basketball Team, IEEE Eta Kappa Nu, Tau Beta Pi