

## Work Experience

<b>Software Engineer I</b> Ballast & Material Team	<b>Herzog</b> St Joseph, MO, USA	<b>May 2024–Present</b>
<ul style="list-style-type: none"><li>Designed and implemented a GPS-based tie unloading software, automating critical workflows and boosting operational efficiency, improving accuracy and user experience.</li><li>Provided leadership to the development team, navigating complex challenges, ensuring on-time delivery, and fostering a collaborative environment despite uncertainties.</li><li>Actively mentored developers, offering technical guidance and expertise, resulting in faster resolution of issues and improved team productivity.</li><li>Instituted and enforced rigorous code quality standards, promoting best practices in modularity, scalability, and maintainability, which reduced technical debt and increased long-term project flexibility.</li></ul>		
<b>Full-Stack Engineer Intern</b> Research & Development Team	<b>Inseer Inc.</b> Columbia, MO, USA	<b>2022–2023</b>
<ul style="list-style-type: none"><li>Designed and built a web application to evaluate and compare Pose Estimation models, integrating a library of videos and rendering model outputs as wireframe skeletons overlaid on the footage.</li><li>Streamlined model validation and performance assessment, facilitating precise visual comparison and improving model selection processes.</li><li>Ensured compliance with best practices in web application security, including data encryption, secure API endpoints, and user authentication protocols.</li></ul>		

## Education and Certifications

- B.Sc. Computer Science, University of Missouri - Magna Cum Laude - 3.7 GPA** **2020–2024**

## Technologies and Languages

- Languages: C/C++, C#, TypeScript, Python
- Technologies: MySQL, AWS, Git, Angular, .NET, GitHub Actions
- Other: Data structures and algorithms, Embedded Systems, Design Principles

## Projects

- FitPal** - A computer vision-powered platform for at-home physical therapy, enabling physical therapists to remotely monitor and interact with patients. FitPal also streamlines home exercise program management, reducing common pain points for both therapists and patients.
- TapRx** - An iOS application designed to improve medication adherence by simplifying dosage scheduling, tracking drug intake, and sending push notifications for missed doses. Emphasized simplicity and user-friendly design to enhance the user experience.