



Company background

Founded in 2014 by Spence Campbell, Infinity Concrete began as a specialist in custom residential foundation and site work. In 2022, Sean McGarity partnered with Spence to expand the company's capabilities, introducing commercial concrete construction services. Together, they transformed Infinity Concrete into a growing turnkey concrete contractor, offering comprehensive solutions for both residential and commercial projects throughout Texas.

Infinity is committed to innovation and technology-driven solutions. Our goal is to modernize an industry that has traditionally lagged in adopting digital tools, by implementing cutting-edge applications that streamline construction processes and increase operational efficiency.

Gantt Planning Assistant Background

In construction planning, it's often helpful to quickly map out timelines and task dependencies during early-stage conversations with general contractors or project partners. This project involves building a tool that allows a user to input key project parameters, such as project size, expected duration, crew efficiency, and task details, and receive an auto-generated Gantt chart showing a proposed project timeline.

The tool should include a front-end interface for entering these parameters through a clean, user-friendly form. Once submitted, the backend will process the data and generate a visual Gantt chart, potentially with task overlays or sequencing designed to optimize efficiency. There should also be an option to export the Gantt chart for external use or sharing.

The team may explore using AI or rules-based logic to suggest more efficient scheduling strategies or flag unrealistic inputs.

Desired Skillset

- Front-end development experience
- API Integration
- Experience with data visualization or charting libraries
- Willingness to explore AI tools
- Real-time notifications and status updates
- Data analysis and organization
- Adaptable students willing to research and learn applicable skills to the project

Project specifics: Gantt chart generation, front-end form design, backend processing logic

Preferred Team Size

We recommend a team of 3 to 5 students to ensure sufficient collaboration.

Location Expectation

All work and collaboration for this project can be done remotely. The Infinity team, based in New Braunfels, Texas, will provide support and regular feedback via virtual meetings and online communication tools.