



## 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.

## Concrete Dispatch Application Background

We are proposing the development of a custom web application that will replace our current manual process for ordering, dispatching, and tracking concrete deliveries to job sites.

At present, our system relies on Excel spreadsheets and phone calls between dispatch and field to coordinate concrete pours. This project aims to build a more efficient and structured process through a centralized web-based system accessible via both mobile devices and desktop browsers.

The app will serve two types of users:

Field:

- Submit concrete orders for specific job sites
- View upcoming scheduled pours
- Request schedule changes or submit urgent scheduling needs
- Confirm details post-pour to verify that deliveries matched expectations

Dispatch:

- Receive notifications of new orders
- Enter updated pour details after scheduling with concrete vendors
- Monitor job site confirmations to ensure data consistency and accuracy

This application will drastically reduce miscommunication, improve scheduling transparency, and streamline a currently time-consuming process.

## Desired Skillset

- Web application development (front-end and back-end)
- Mobile-responsive design
- API integration
- Database design and management
- Real-time notifications and status updates
- Adaptable students willing to research and learn applicable skills to the project

Project specifics: React Native, .NET 5, Cosmos DB, MSAL, RBAC

## 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.