



FoodBridge

Connecting Surplus to Those in Need

UVICHacks X Inspire 2026

Meet the Team



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The Problem

46.5%

of food produced in Canada is wasted



Grocery stores discard edible food daily



Restaurants throw away surplus meals



Shelters struggle to find consistent supply



No efficient connection between donors & recipients

10 million Canadians face food insecurity while 21.1 million tonnes of food is wasted annually

Our Solution

FoodBridge connects surplus food from businesses/individuals to shelters that need it most



1. Donors List

Businesses & individuals post surplus food with photos, quantity & pickup details



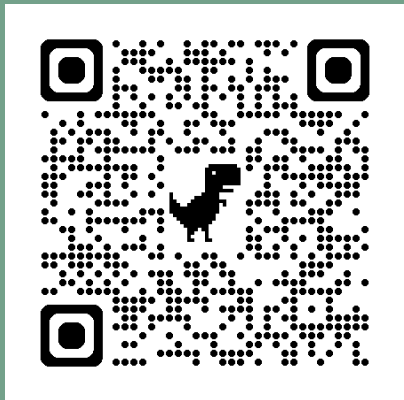
2. Smart Routing

Our system matches donations with nearby shelters & optimizes pickup routes



3. Shelters Serve

Kitchens receive fresh food, track inventory & get recipe suggestions



<https://eshu3104.github.io/uvichacks-jan26/>

Live Demo

Let's see FoodBridge in action

Donor registration & food listing • Shelter dashboard & inventory • Route optimization • Recipe suggestions

Current Solutions

Feature	Too Good To Go	Herluma Project	FoodBridge
Target Users	Consumers	Shelters	Donors, Shelters, and Soup Kitchens
B2B Donations	✗	✓	✓
Route Optimization	✗	✗	✓
Inventory Management	✗	Limited	✓ Full tracking
Recipe Suggestions	✗	✗	✓ Based on inventory
Clearance Deals	✗	✗	✓
Cost to Users	Paid	Free	Free

The Value We Bring

For Donors

- Easy food listing in minutes
- Tax deduction documentation
- Track donation impact
- Zero cost to participate

For Shelters

- Reliable food supply
- Smart inventory management
- Optimized pickup routes
- Recipe suggestions to reduce waste

For Communities

- Reduced food waste
- More meals for those in need
- Lower environmental impact
- Stronger local connections

Potential Impact: 12,400 lbs food rescued/month • 89+ shelters served • 34,000+ meals enabled

How Our Code Works

Current Stack (Hackathon)

Frontend

React + TypeScript + Vite

Component-based UI with type safety

Styling

Tailwind CSS

Utility-first CSS, custom theme

State

React useState/Context

Client-side state management

Routing

State-based navigation

View switching via callbacks

Data

Mock JSON data

Static data for demo purposes

Production Stack (Future)

Backend

Flask/FastAPI + Python

RESTful API, business logic

Database

PostgreSQL + SQLAlchemy

Persistent data storage

Maps

Google Maps API

Routing & distance calculation

Auth

JWT + OAuth

Secure user authentication

Deploy

Docker + Cloud

Containerized deployment

Architecture: Component-based React → State flows via props → Event handlers trigger view changes → Data from context/API

Next Steps

Phase 1

Month 1-2

- Backend API development
- Database setup
- User authentication

Phase 2

Month 3-4

- Google Maps integration
- Real route optimization
- Mobile responsive polish

Phase 3

Month 5-6

- Partner with local businesses
- Pilot with 5 shelters
- Gather feedback & iterate

Launch

Month 7+

- Public launch in Victoria
- Expand to other cities
- Add grocery store partnerships

Our Vision: A Canada where no edible food goes to waste while people go hungry

Thank You!

Questions?

github.com/eshu3104/uvichacks-jan26

Made with ♥ for UVICHacks 2026