



• Human-  
Computer  
Interaction  
Institute

P4 Final Project



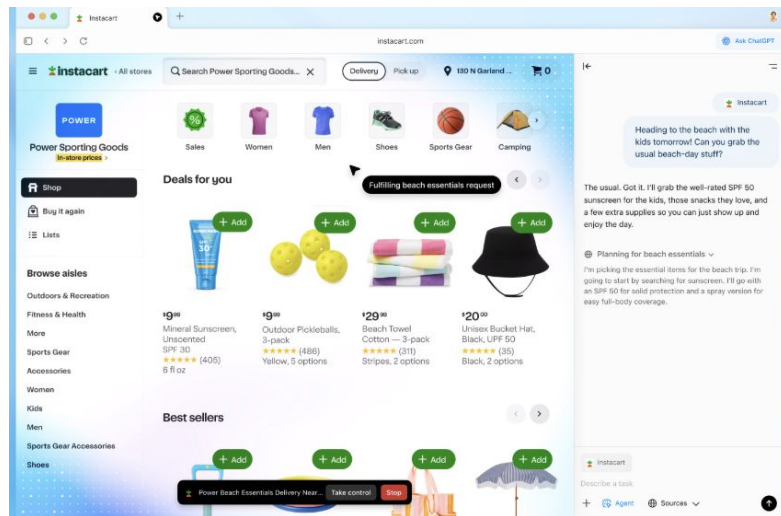
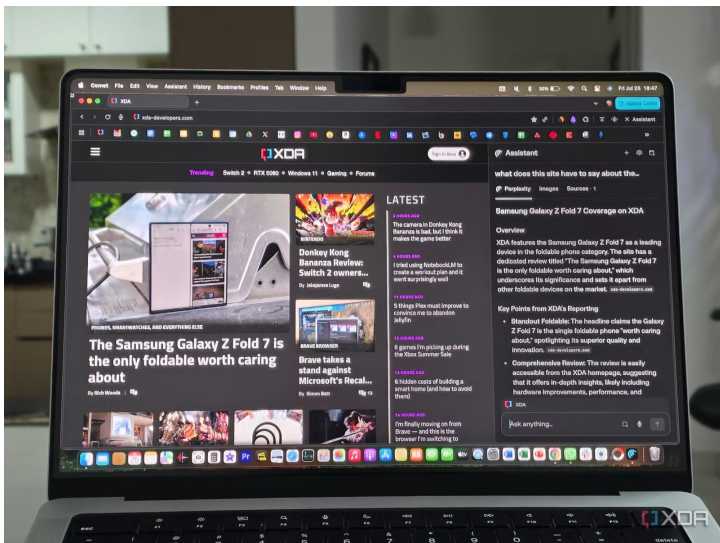
# Project Title: Karet.

A cursor-first AI interaction layer for the web.

By Dave Song

# Problem

## “Era of AI Browsers” & “Agentic workflows”





# Karet.

A cursor-first AI interaction layer for the web.



By Dave Song

# Karet: Technical Overview (FAST)

## What It does:

AI assistant Chrome extension activated with Alt + K anywhere on the web.

## Technical Challenges:

1. Implementing Chrome Extension (Manifest, Permissions, Content vs. ServiceWorker)
2. Shadow DOM + CSS Isolation
3. Keyboard event hijacking (addEventListener -> Capture: True)
4. XSS Safe process (Cross-Site Scripting prevention through sanitization (DOMPurify))



# DEMO



# Thank you!

