



- Human-
Computer
Interaction
Institute

P4 Final Project



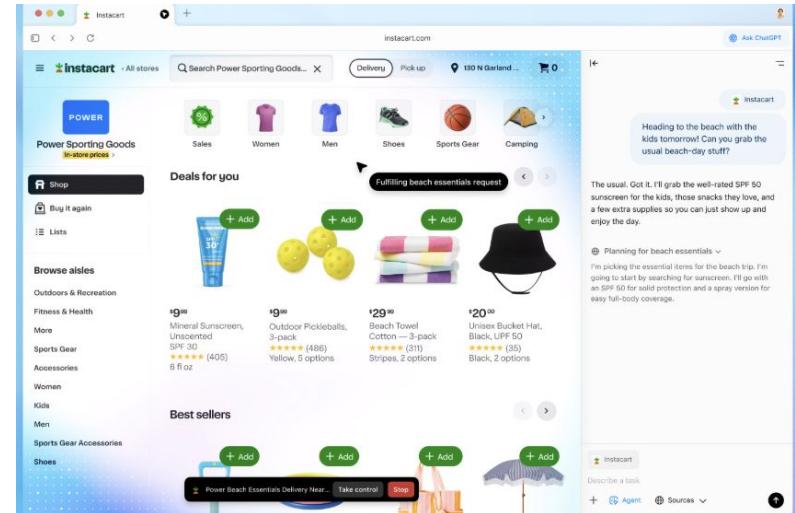
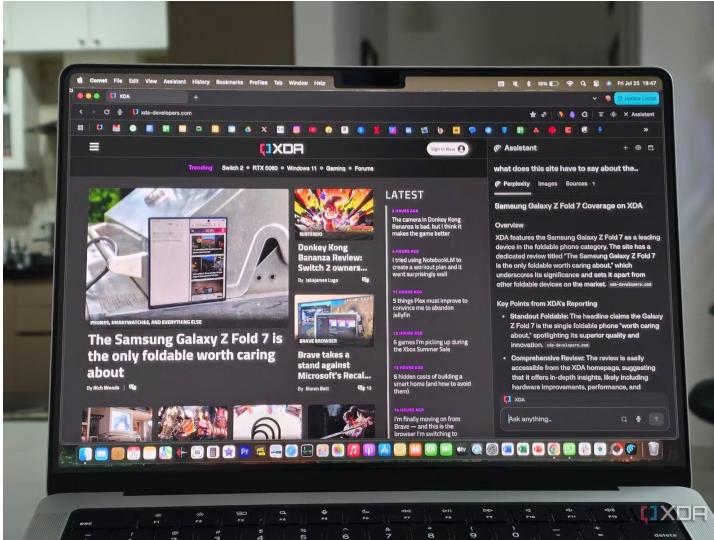
Project Title: Karet.

A cursor-first AI interaction layer for the web.

By Dave Song

Problem

“Era of AI Browsers” & “Agentic workflows”



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Karet.

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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 (DOMPurity))



DEMO

Thank you!

