PhishGuard

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PhishGuard

Who is the target audience?

- Examines URLs and domain patterns

- Detects login forms and suspicious page content

- Computes a phishing risk score

- Displays clear, explainable warnings

Who is the target audience?

- Everyday internet users

- Students and faculty

- Small businesses

- Non-technical users who want extra protection

User's point of view

From the user's perspective:

- Install extension → browse normally

- Extension icon changes color (green / yellow / red)

- Warning banner appears on risky sites

- Click popup to see:

    - Risk score

    - Why the site was flagged

    - Recent scans

- Option to mark site as safe or suspicious

Why this Project

- Phishing is one of the most common real-world cyberattacks

- The project combines:

  - Security

  - Web development

  - Data analysis

- I like building tools people could realistically use

- It's challenging because:

  - Detection isn't trivial

  - Balancing false positives vs real threats

  - Designing clear UX for security warnings

Technologies

Software

- JavaScript / TypeScript

- Chrome Extension APIs (Manifest V3)

- HTML + CSS for UI

- Python (for dataset evaluation scripts)

- Public phishing datasets

  Do I already know these?

- Experience with web development & JS

- Familiar with security concepts

- Will extend skills in:

  - Browser internals

  - Detection systems

Questions