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Comp116: Computer Security

**Final Paper Outline**

**Malicious Browser Extensions**

1. Introduction
   1. Why Browser Extensions
   2. Extension architecture
   3. Security model of extensions
2. To The Community
   1. Security vulnerabilities with extensions
3. Action Items
   1. Stealing browser information with extensions
      1. Location
      2. User information
      3. Cache/Cookies
   2. Middle-man attacks with extensions
      1. Data transmissions
   3. Phishing
      1. Stealing usernames/passwords
      2. Legitimacy
4. Conclusions
   1. Statistics – who is affected
   2. Ways to avoid being attacked

Supporting material:

Build a Chrome extension that appears to make cosmetic changes to facebook when activated, but actually can steal logon information for facebook.

**References:**

<http://www.zdnet.com/malicious-chrome-extensions-on-the-rise-7000019913/>

<http://www.informationweek.com/security/attacks/malicious-chrome-extension-poses-as-face/240160633>

<https://www.cs.gmu.edu/~sqchen/publications/NDSS-2012.pdf>

<http://developer.chrome.com/extensions/getstarted.html>