Project Recap

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CS 179i: Project in Computer Science (Networks)
Lectures: Monday 3:10-4pm in Spieth 1307

http://www.cs.ucr.edu/~jiasi/teaching/cs179i_winter16/
Project Topics

• Security
  • BitTorrent with TOR
  • Personalized two-layer authentication

• Media
  • Synchronized video sharing
  • Music aggregator
  • Mobile DJ
  • VR remote desktop using Google Cardboard
  • MPEG-DASH

• Social/Location
  • Zombie tag
  • Geo-location of event invitees
  • File sharing using WiFi Direct
Proposal Comments

• Divide milestones into before progress update (Feb. 8) and final

• Think about what you want to measure/plot, e.g.:
  • Latency compared to other “strawman” approaches
  • Scalability with number of users
  • Resource usage (CPU, battery)

• Cite your sources for images taken from the web!
Essay #1: New Trends

• ABET Goals
  • An ability to analyze the local and global impact of computing on individuals, organizations, and society
  • Recognition of the need for and an ability to engage in continuing professional development

• Want to check your understanding from your 4 years at UCR
Your Task (should you choose to accept it)

- Choose a product/practice/event
  - Product: e.g., Google Glass, consumer-priced drones, self-driving cars
  - Practice: e.g., sponsored cellular data, massive open online courses
  - Event: e.g., Arab Spring (social media), cyberbullying

- Choose a professional organization
  - E.g., ACM, IEEE, ...

- Consider the role of the professional organization on the product/practice/event
  - Take a stand! Argue for/against the trend, why is it good/bad for people/taxpayers/animals/etc.

- Write an essay
  - 1000 words, 6+ cited sources
  - Due Mon. Feb. 1, 2016
  - Worth 5% of grade
Sponsored Data Content + Net Neutrality

- Event: T-Mobile allowing free video streaming (Binge On)
- Professional organization: FCC

Is this beneficial for ISPs?
- Yes, compress videos to save bandwidth

Is this beneficial for consumers?
- Yes, save money...

Is this beneficial for content providers?
- No, discriminates against some providers
Possible Essay Topics

• Security
  • Should the NSA be allowed to snoop?

• Media
  • Should content providers be allowed to sponsor cellular data?
  • Should media content be treated differently than other traffic on the mobile web?

• Social
  • Should companies be allowed to sell location information?
  • Facebook privacy settings
Proposal Return and Discussion