

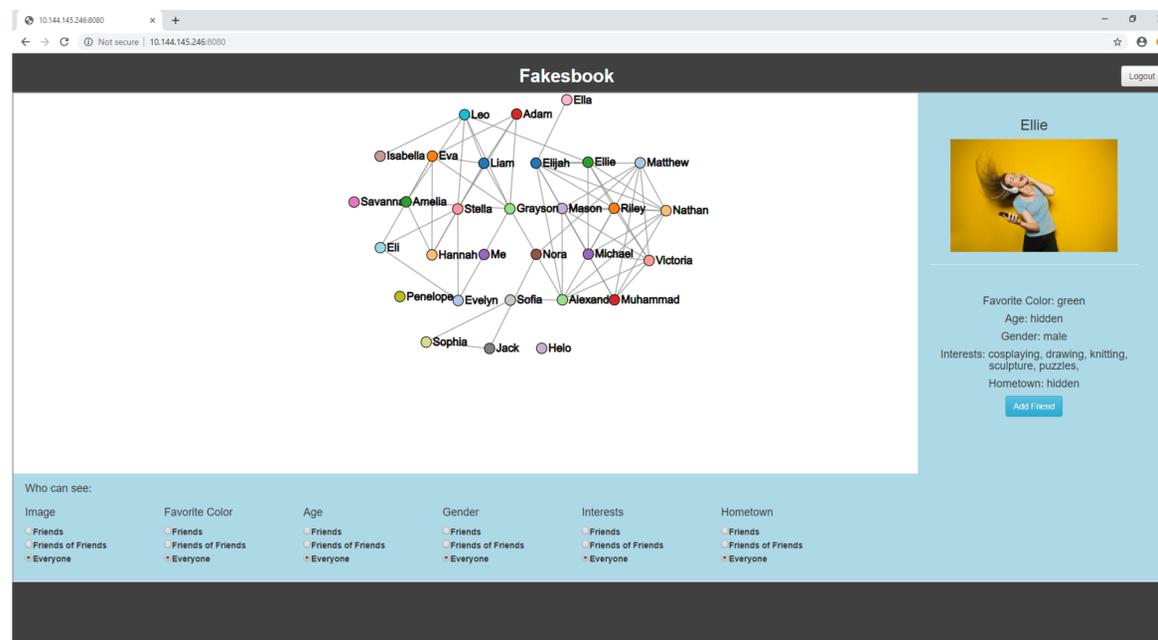
Fakesbook:

A social networking platform for teaching security and privacy concepts

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Problem

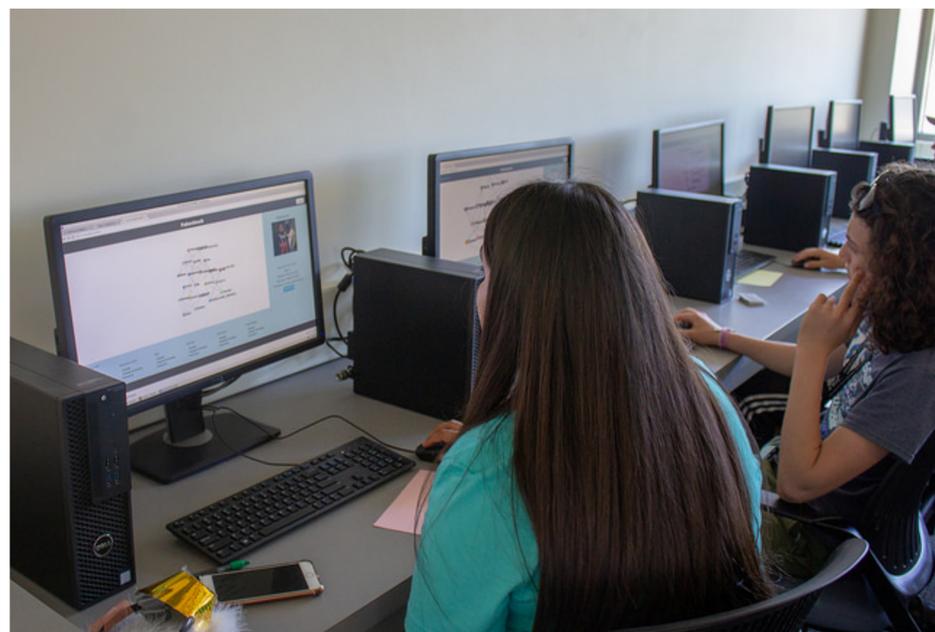
- 75% of all children ages 12-17 interact with some form of social networking regularly, but don't understand the implications of their privacy.
- Teenagers with fully public profiles are more likely to experience cyberbullying.
- Fakesbook is designed to communicate the importance of online security and privacy in a fun, engaging, and safe environment.



An example user profile and user graph

Learning Objectives

- Help students develop self-agency in their online privacy.
- Promote adversarial thinking as a method of protecting online data.
- Encourage student interest in cybersecurity and computing.



Students working with the platform during a lab

Architecture

- Python/Flask backend with Twisted multi-threading and SQLite relational database.
- Extensive D3.js frontend.
- Designed to be lightweight; an entire lab can be run on a single laptop.
- Released under an open-source license, and easily deployed in a variety of settings.

Deployment

- Platform and curriculum used over a two-year period with hundreds of students.
- 86% of students indicated that the platform was helpful in teaching them about privacy.
- The platform is open sourced at: <https://github.com/Fakesbook/Fakesbook>



This research was supported by the National Science Foundation under Grant No. 1628726.

