



Securing Data

Web Development Boot Camp
Unit 13





**What can happen if your password is
compromised online?**

Password Compromised

If your password is compromised...

- sensitive data exposed
- possibly lead to identity theft



**Ever had your account
compromised/hacked?**

Recent Data Breaches (2021 & 2020)

- Facebook - Social Media (533 million, [source](#))
- OneClass - online learning (1 million, [source](#))
- Postbank - bank (8 million, [source](#))
- Keepnet Labs - security (5 billion, [source](#))
- Ehteraz - govt. covid tracking (1 million, [source](#))
- Indonesia - voter records (2.3 million, [source](#))



**As web developers, how can we help
prevent data breaches?**

Prevent Data Breaches?

- You cannot prevent data breaches
- You can reduce risk of a breach
- Making it harder to crack passwords can help



What can we use to improve password security?

Hash Passwords

- Use a hashing algorithm to "scramble" passwords.
- Add random data to the hash to make it unique
- bcrypt is a widely used npm package for hashing passwords
- hashing makes it computationally expensive to crack passwords

[Bcrypt Documentation](#)

[Read How to Safely Store a Password](#) by Coda Hale



Questions?