Data Security
Most Secure Dota is data
you. Don't. Have!
Encryption:
A reversable process that obfusco
Securing Data in transit asymmetric encryption
"one lay to lock, one key to unlock"  Public
me here is my key google

-) aogle

me

Tevil -

## Digital Certificate: physically verified certificate authority provide "root" certificates and delegate / Verify other security partification

Securing data at Rest

Symmetric Key encryption

"typical lock and Key"

"same Key encryts and decrypts

the data"

11 ...

## " Key rotation"

.

## Hashing

"Proof of knowledge"
Posswords!

Hoshing is a one way mathematical transformation, typically to a fixed Size out out

De cause

Alice > Password! -> A97FOA6...

Eve > Password! ! -> A97FOA6...

Salted hash generate a vandom "salt" volue

for each user

Alice - "Password!!" + "B9765900" -> F952614

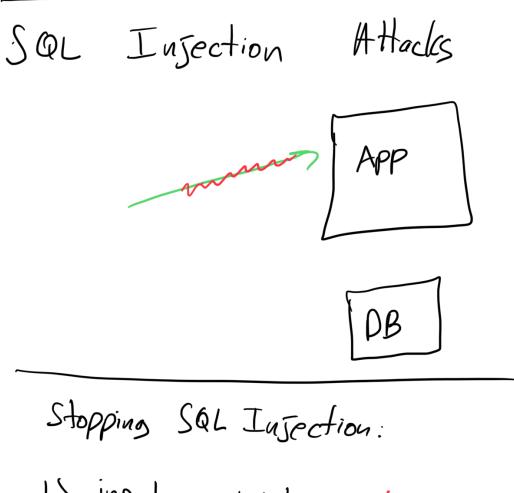
Eve -> "Password!!" + "986 F52" -> B27952

double hosh

Salt + hosy client side

hash again on the source

Since



- 1.) input validation ×
- a.) Limit database user priviledges ~
- 3.) Use pavameterized quevies