

### Tactical Goals

#### Complete a State-of-the-Field Project

- At the end of the course: Paper, presentation, and dialogue on a topic:
  - Background content
  - Technical Analysis
  - Future Trends

#### Learn approaches for technical topic

- Finding content
- Collaborating
- Discussing
- Writing
- Presenting

# Strategic Goals

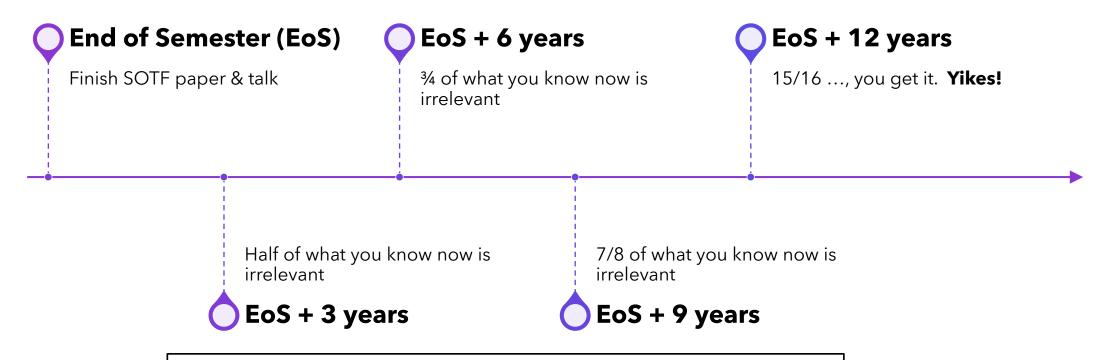
#### Prepare for professional computing life

- Sustained learning skills and habits
- Presence in the virtual world
- Collaborative approach to life

#### Cultivate a growth mindset

- Execute today's ideas & invest in new ideas
- Do today's job & prepare for next one
- Collaborate today with colleagues & increase your existing network

## Timeline: CS Knowledge "half life"



Without regular learning of new content, our skills diminish! Rate of progress seems to be accelerating: 3 years -> 2, 1.5?

### Timeline: CS Knowledge Growth





34 of what you need to know you learned the past 6 year



15/16 of what you need to know you learned the past 12 year, and so on.

Half of what you need to know you learned the past 3 year

+ 3 years

7/8 of what you need to know you learned the past 9 year



# Communication tools

#### Slack

Backbone for lightweight interactions

#### Zoom

Individual discussions
Backup for Absence

#### GoogleDocs Generative Al

Collaborative content development

#### GitHub

Collaborative content management

# Slack: Creating persistent presence



Enables a virtual team room experience



Have it on your phone, desktop, tablet, Apple Watch



Monitor it regularly



### Generative Al Tools

Exciting new frontier

We will embrace and explore the use of these tools!

## Expectations

#### Keep strategic goals in mind

- Prepare for professional life
- Cultivate a growth mindset
- Our tactics can change

#### Be transparent

- · Communicate to me and your team about opportunities, challenges
- · Communicate early, when issues are just emerging and easier to address

#### Commit

- Stay focused
- Adapt as needed

### Resources

https://maherou.github.io/Teaching

