AddisCoder Lecture 1: Introduction

Daniel Kang



Who am I?

- Professor of computer science at UIUC
- Research: machine learning + computer systems
- Taught for AddisCoder in 2016, 2018

The rest of the team

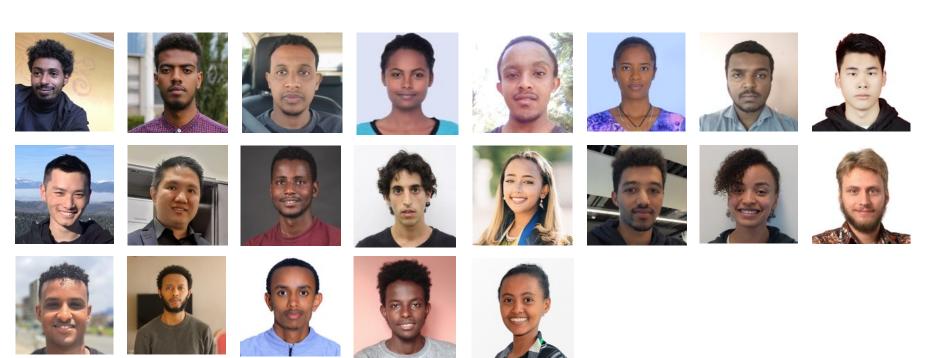
Lecturers:



Alex Krentsel

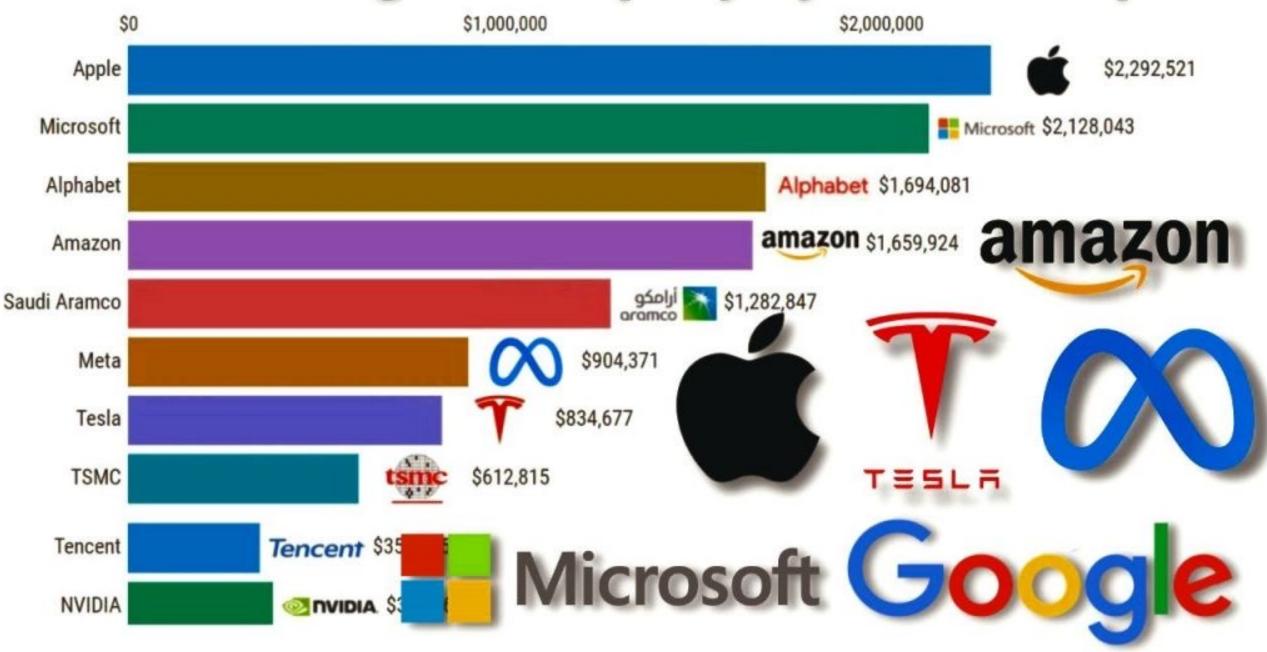
Heather Huynh Jelani Nelson

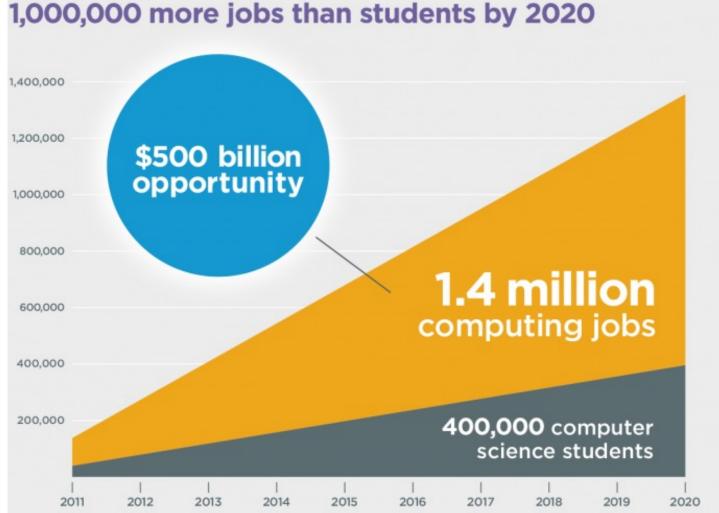
TAs:



Why computer science?

World largest company by market cap





Computer science is a top paying college degree and computer programming jobs are growing at 2X the national average.

What will you learn in this class?

- Basic programming in python[™]
- Algorithmic thinking and implementation

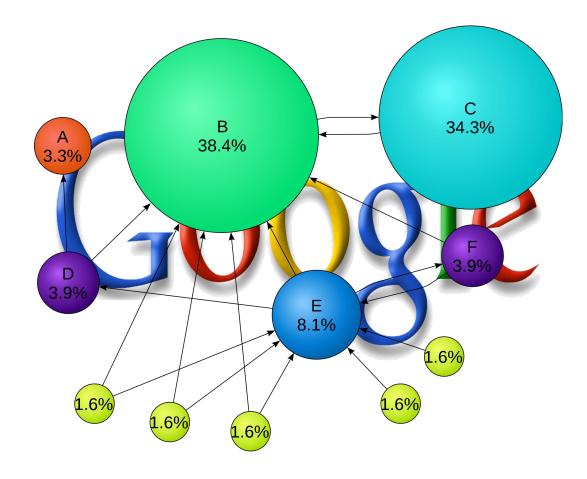
You will NOT learn

- App development
- HCI, ML, ...

Why algorithms?

PageRank: foundation for Google

- Basis for Google search
- Quickly find links that are popular



Consistent hashing data structure

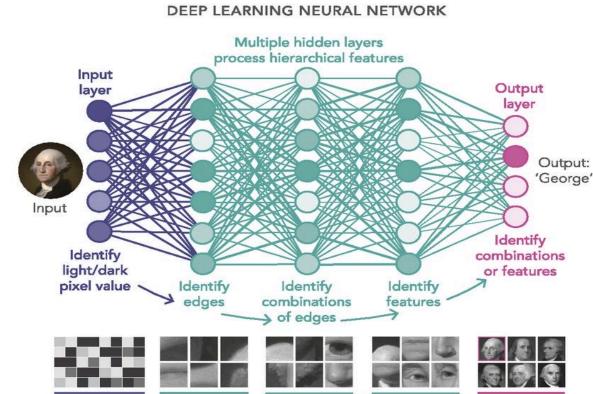




Streams 200 million movies simultaneously

Back propagation





Backbone of AI revolution

Let's hear from AddisCoder alumni

Let's start learning

Expectations for this course

- This course moves fast
- You will need to seriously engage with the material
- We are here to help!