Welcome to CSE 356

Introduction
Today’s Lecture

• Course Overview
• Course Topics
• Grading
• Logistics
• Academic Integrity Policy
Course Overview (1/2)

• Caveat 1: I kind of know what I’m doing now.
• Caveat 2: This is (still) the only ugrad class I teach.

• Cloud Computing:
  – “a model for enabling ubiquitous network access to a shared pool of configurable computing resources” [Wikipedia]
  – Probably the most over-used term in IT
  – We’ll cover the hot topics
    • Some will disagree that all of them are “cloud”
    • Even if that’s true, useful to know anyway

Today is mostly about setting expectations
Course Overview (2/2)

• Observations from past semesters
  – Requires learning in and outside of class
  – This will be a lot of work
  – Learn highly relevant technologies
  – Learn more than from a traditional class

• Student sentiment
  – Strongest students: get the most out of the course
  – Typical students: filled with fear, drop the course
  – Weakest students: struggle the most
    • Can we change this?
(Likely) Course Topics

Introduction to cloud services, virtualization, paravirtualization, advanced networking, web services, server-side scripting languages and frameworks, cloud programming paradigms, cloud deployment and machine management, scale-up vs scale-out, cloud storage, cloud service topologies, message serialization and transport, load balancing, content distribution networks, security, authentication, QoS, managing tail latencies, performance monitoring
# Grading

<table>
<thead>
<tr>
<th></th>
<th>Points</th>
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<tbody>
<tr>
<td>10 Homeworks</td>
<td>2 each</td>
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<tr>
<td>2 Mid-term Exams</td>
<td>10 each</td>
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<tr>
<td>2 Warm-up Projects</td>
<td>10 each</td>
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<tr>
<td>4 Final Project Milestones</td>
<td>10 each</td>
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- Letter grades assigned by eye on a curve
  - One std. dev. above the mean is an A
  - Two std. dev. below the mean is an F
Course Project

• You decide
  – Do the assigned project
  – Propose your own project
  – Do a project for me
    • Possibly more fun, if you feel the assigned project is too easy

• Proposing your own project has ups and downs
  – You do something that you want
  – More work for you to do

Have a startup idea? It may make a good project.
Logistics (1/2)

• Working in groups
  – No limit on projects
  – All homeworks must be done individually

• Attendance
  – Optional (but highly advised)
  – No phone use in class
    • Don’t test me - I will penalize your grade
Logistics (2/2)

• Blackboard
  – Only used for posting grades

• Course Mailing List
  – Subscription is **required**

• Late Policy
  – All deadlines are **3:59PM** on due date
  – 1-point deducted for each late day (in 24-hour increments)
    • Multiplied by number of group members
Academic Integrity Policy

• Summary: don’t cheat
• Details: don’t take code from anyone for any reason
  – Unmodified third-party open-source libraries permitted

I will enforce this policy very strictly
Questions?