Welcome to CS 128 Honors!

Today's Goals

- Introduce Ourselves
- Review Course Goals
- Review Syllabus

Who are we?

Neil Kaushikkar

- **Computer Science - May 2024**
- **Worked For:** Twilio, NASA Ames Research Center, COUNTRY Financial
- **Interests:** Systems Programming, CS & Education, Networking
- I'm a huge soccer fan, and I support Chelsea FC
- I'm interested in food/coffee science

Who are we?

Arul Verma

- **Computer Science - May 2024**
- **Worked for:** Grainger CS Dept. Gies College, Steel Perlot
- **Interests:** Blockchain, Zero Knowledge and Cryptography, Teaching
- I play Water Polo and chess

What is this course?

As the name suggests, we're the Honors add-on for CS128.

- We follow the CS 128 course through the lens of the **Rust** programming language
- We are a fully student-run course, with a large focus on the course community
- We have a group based final project at the end of the course which is a chance for you to apply Rust to nearly anything you want

Who should take this course?

What is **Rust**?

- Rust is a programming language
- For **seven** years running, Rust has taken Stack Overflow's top spot as the most loved programming language

Most people take this course because...

- Rust is a super cool programming language
- You want to learn about more topics in CS
- You want to create an interesting project (in Rust)
- You want to meet with similarly passionate classmates

What Do We Teach?

Four Major Course Components:

- Lectures
- Homeworks
- Machine Problems (MPs)
- Final Project

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Lectures:

- Introduction to Rust
- Ownership and Borrowing
- Threads and Parallelism
- Special Topics

What Do We Teach?

Four Major Course Components:

- Lectures
- **Homeworks**
- Machine Problems (MPs)
- Final Project

Homeworks:

- Very short assignments meant to help you get practice with lecture content
- Usually 1/wk, only for first half of the semester
- Will be on PrairieLearn

What Do We Teach?

Four Major Course Components:

- Lectures
- Homeworks
- **Machine Problems (MPs)**
- Final Project

Machine Problems:

- Longer, more involved assignments that will take around 1-2 hours to complete
- Will be distributed and submitted through PrairieLearn
- Starter code will be provided for you to work locally

What Do We Teach?

Four Major Course Components:

- Lectures
- Homeworks
- Machine Problems (MPs)
- **Final Project**

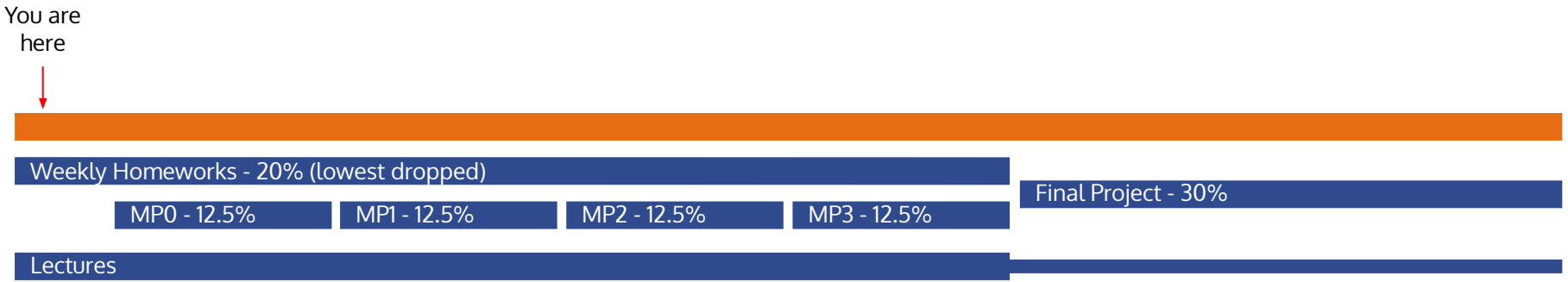
Final Project:

- 6 week group project
- Groups of 2-4 people
- We grade on functionality, style, codebase quality, and creativity!
- Submitted through GitHub

What is this course?

Four Major Course Components:

- Lectures
- Homeworks
- Machine Problems (MPs)
- Final Project



Communication

- All course-related communication will take place on **Discord**
- We are currently finalizing the hours these will be available
    - This information will be posted in Discord

How do I sign up?

- James Scholars
  - Submit your HCLA with Professor Michael Nowak as the Instructor (more on this on the next slide)
  - You ***do not*** have to register for the course ***in Self Service***
- Non-James Scholars
  - Sign up for the course on Self Service
  - Course name: CS 199
  - Section: 128
  - CRN: 56131

Computer Sci…	199	Supplementary Proj for C… Online	128	0	56131	Fall 2…	Nowak, Michael (Prim…	S M T W T F S - **Type:** Class **Building:** Nor	**94** of 100 seats …

HCLA Signups

- Only Submit this is you are a James Scholar
  - ***Do not*** register for the course ***in Self Service***
  - Make sure you are registered for CS128
  - Fill out the HCLA Form to register for the course (online James Scholar portal)
- Sections of the form
  - Term: FA 2022
  - Course for honors credit: CS 128
  - Professor: Professor Novak (mnowak1@illinois.edu) (will show up next to CS 128 when selecting the course)
  - Special work to be completed: "Satisfactory completion of CS 199-128"

How do I participate?

Fill out the onboarding Google Form!

Link is also in description: https://forms.gle/a5uU6jZ2reuCsMGaA

Thank you!

Reminders:

extra/0 credit practice problems that are always open - mention in lecture when each are possible

add github repo with example code from lecture

add easy EC points to MPs - showcase interesting extensions during lecture

whenever we give lecture give them a chapter to follow along with

student interaction in lecture like steltzer- email students if they do well

mention common pitfalls of MPs after due date

partial credit until 1 week after 50%

emphasize early that you will get whatever you put in - lots of opportunities to do more