Welcome to CS 128 Honors!

Today's Goals

- Introduce Ourselves
- Review Course Goals and Course Information
- Sign Up Information

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:** Steel Perlot
- **Interests:** Blockchain, Zero Knowledge, Cryptography,
- Massive fan of chess and I follow esports

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 with 87% of developers saying they want to continue using it

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
- Rust is growing in popularity in industry as the leading language for networking

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 (Traits, Async Programming, Solana)

What Do We Teach?

Four Major Course Components:

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

Homeworks:

- Short assignments meant to help you get practice with lecture content
- Usually 2/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:

- More involved assignments that will take around 1-2 hours to complete (on PrairieLearn)
- 2 MPs implement popular algorithms & 2 MPs create some simple applications
- Projects: Simple Terminal Calculator, K-Nearest-Neighbors (ML Algorithm), Terminal Hangman Game, MapReduce (Google's Data Processing Algorithm)

What Do We Teach?

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- Lectures
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- **Final Project**

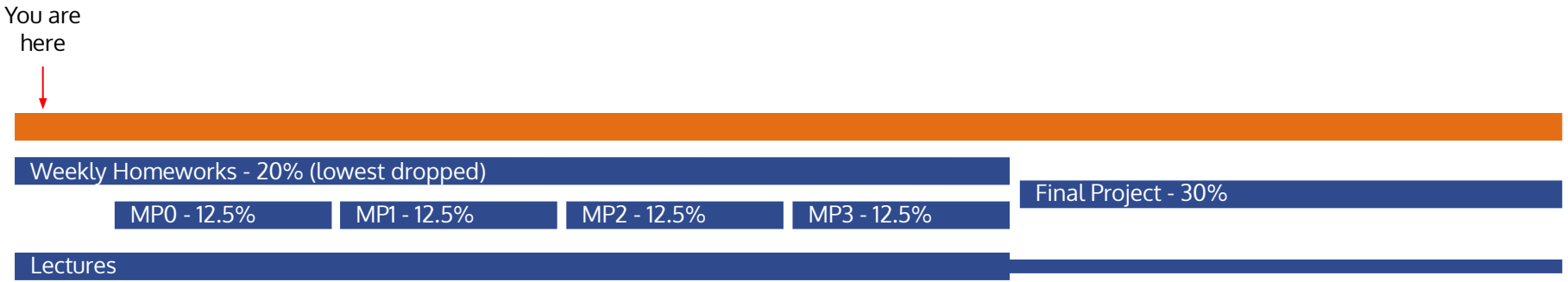
Final Project:

- 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**
- The course staff holds office hours for 2 hours a day, every day of the week
- We will also be holding weekly group study sessions
- We are currently finalizing these hours. More info will be available 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: 56371

CS	199	Supplementary proj. for CS-128 Online	128	0	56371	Nowak, Michael (Primary)	S M T W T F S - **Type:** Class **Building:** None **Room:** None **Start**	**33** of 50 seats remain.

HCLA Signups (James Scholars ONLY)

- 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: SP 2023
  - 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/njX8YNWFprFPG5KZ9

Thank you!