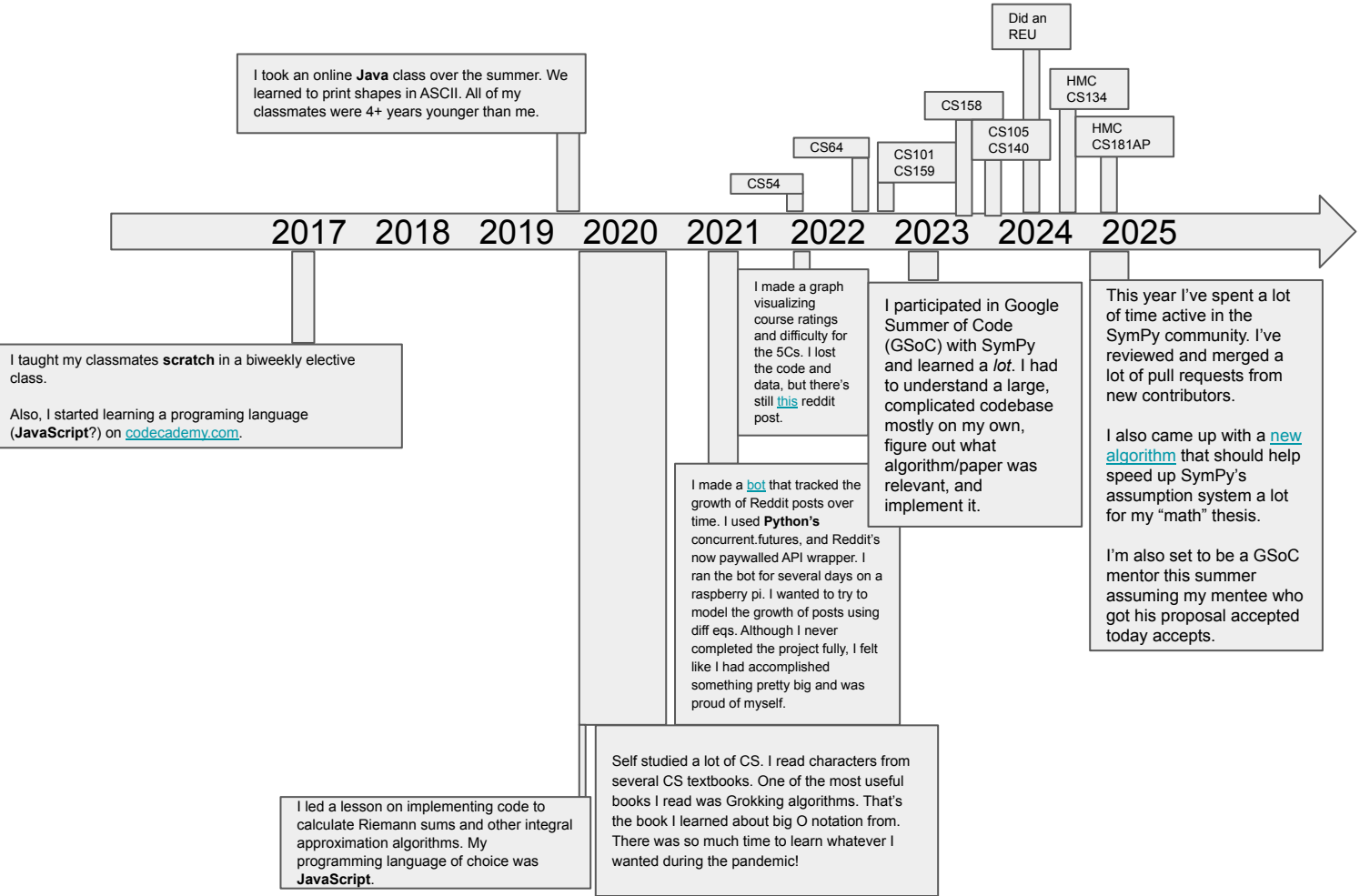
I took an online **Java** class over the summer. We learned to print shapes in ASCII. All of my classmates were 4+ years younger than me.
Did an REU
HMC CS134
CS158
CS105 CS140
HMC CS181AP
CS64
CS101 CS159
CS54
2017
2018
2019
2020
2021
2022
2023
2024
2025
I taught my classmates **scratch** in a biweekly elective class.
Also, I started learning a programing language (**JavaScript**?) on codecademy.com.
I made a graph visualizing course ratings and difficulty for the 5Cs. I lost the code and data, but there's still this reddit post.
I participated in Google Summer of Code (GSoC) with SymPy and learned a *lot*. I had to understand a large, complicated codebase mostly on my own, figure out what algorithm/paper was relevant, and implement it.
This year I've spent a lot of time active in the SymPy community. I've reviewed and merged a lot of pull requests from new contributors.
I also came up with a new algorithm that should help speed up SymPy's assumption system a lot for my "math" thesis.
I'm also set to be a GSoC mentor this summer assuming my mentee who got his proposal accepted today accepts.
I made a bot that tracked the growth of Reddit posts over time. I used **Python's** concurrent.futures, and Reddit's now paywalled API wrapper. I ran the bot for several days on a raspberry pi. I wanted to try to model the growth of posts using diff eqs. Although I never completed the project fully, I felt like I had accomplished something pretty big and was proud of myself.
I led a lesson on implementing code to calculate Riemann sums and other integral approximation algorithms. My programming language of choice was **JavaScript**.
Self studied a lot of CS. I read characters from several CS textbooks. One of the most useful books I read was Grokking algorithms. That's the book I learned about big O notation from. There was so much time to learn whatever I wanted during the pandemic!