

# Hector Carrillo

BACHELOR'S OF COMPUTER SCIENCE AND ENGINEERING @ MIT

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## Introduction

I've always valued communication. No matter what team I'm in, I always try to establish open - and kind - feedback/suggestions. All of my group projects have been extremely successful as we never had to guess what the others' are thinking. Such communication opens the door to smooth, productive, and insightful design sessions. I love the planning phase in projects as that is when the most interesting ideas come to light.

I highly recommend checking out my [portfolio website](#). It has in-depth descriptions of my classes and internships.

## Education

### Bachelor's Degree in Computer Science and Engineering, Minor in Mathematics

Cambridge, MA

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Aug 2015 - June 2016, Feb 2020- Feb 2023

- Software Studio
  - Developed a replica Twitter with pro-user sanity features and [Music Mentors](#), a novel knowledge sharing website. Vercel + MongoDB.
- Computer Systems Engineering
  - Designed and argued the effectiveness of an automated system which would manage electricity for an entire, simplified city.
- Computational Structures
  - Developed a CPU from scratch using Minispec (Bluespec derivative)
- Software Construction
  - Instilled the importance of test-first programming and well-thought-out documentation.
- Intro to Machine Learning
- Design and Analysis of Algorithms

## Experience

### Fylo Health

Cambridge, MA

FULL-STACK CONSULTANT

February 2023 - Now

- Advised and contributed to the design and infrastructure of a new start-up.
  - Mentored Fylo Health's CTO in full-stack development with the MEVN stack (MongoDB, Express.js, Vue.js, Node.js).
  - Currently assisting with the MVP - Vue development and RESTful API design.
- MongoDB, Express.js, Node.js, Vue.js, HTML, Typescript, CSS, RESTful APIs

### Hubble Financial

Remote

FRONT-END INTERN LEAD

June 2022 - Sept 2022

- Led a team of interns to redesign Hubble Financial's entire website. We, as a team, learned about Ruby on Rails from a senior developer and used that to plan our own roadmap. Encouraging communication and feedback was key as we all had much to learn.
- Figma, Ruby on Rails, HTML, CSS, JavaScript

### Memorang

Remote

DATA ENGINEER

January 2021

- Developed an automated system to extract questions from textbooks. Input pdf and extract cleaned JSON.
- NLP, RegEx, Python

### Tutoring

Pasadena, Texas; Remote

FREELANCE TUTOR

Jan 2017 - Jan 2019

- Helped 11 middle/high-school students internalize/understand - not memorize - the fundamental concepts behind the topic in question. Most are pursuing degrees in Science.

## Skills

**Back-end** Ruby on Rails, Python, Java, C, C++, Git, RESTful APIs, MongoDB

**Front-end** Vue, HTML, TypeScript, CSS, Figma

**Languages** English, Spanish

## Interests

My curiosity and empathy influence my interests beyond my work. I am particularly curious about cognitive science, music, physics, and philosophy. Music is simply fun but I love the endless depth of complexity which lies within our own skulls. However, I can't help but view everything through the lens of physics and what the underlying interactions were that led to the perceived result. Then I begin to wonder what it means to perceive and now I'm down a philosophical rabbit hole and I want nothing more than to dig deeper.