Carlos "Karl" Hernandez

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Introduction

A curious and driven student with real-world open-source experience looking to apply Computer Science and Mathematics to Biology and Linguistics and pursue a teaching degree in Math.

Rice University

Houston, TX

Mathematics & Linguistics

August 2021 - Present

Email: cjh16@rice.edu Mobile: +1-646-940-1926

Courses: COMP 140: Computational Thinking, COMP 182: Algorithmic Thinking, COMP 411: Principles of Programming Languages

- Teaching two sections of COLL 128: The Art of Lazy Programming to classes of 19 in Fall 2022
- HUMA 128: became the lead director for a documentary film with a team of 60 people involving Covid-19

Stuyvesant High School

New York City, NY

Stuyvesant Endorsed Diploma

September 2017 - June 2021

Courses: Intro to CS, AP Computer Science, AI, Systems Programming, Computer Graphics, Software Development

- Vice President of the Stuyvesant Competitive Coding Club
- President of a 200 member club: SJMC
- Helped Stuyvesant CS teacher teach web development to a class of 25

Google Mentorship Program

Remote

Student Mentee Dec 2020 - Jun 2021

- Led team of 3 engineers to compete a dynamic gesture recognition model
- Integrated Tensorflow, Mediapipe, and OpenCV to create an efficient model
- Received Stuyvesant High School's Principal approval and appraisal of our team's demo

Open Source

Instructor

Remote

Jan 2019 - Present Contributor

• Active Contributor for popular projects like: Arch Linux, Neovim, Rust Analyzer, and more

- Maintainer of four AUR Packages on Arch Linux
- Part of the Rice Linux Group that discusses and contributes to the Linux Community
- Open Source Youtuber making tutorials for beginners: SeniorMars

Competitive Coding Club

General Management

New York City, NY

Jan 2019 - June 2021

- Created and organized meetings teaching advanced algorithms to over 20 students
- Led students to compete in competitions such as pclassics, a competition hosted by the University of Pennsylvania
- Gave extra lectures relating to compilers, linux, and memory

The Poetry Society of New York

New York City, NY Jun 2019 - Present

• Helped bring in over a thousand guests for the NYC Poetry Festival twice through adverting and management

- Directed over 20 volunteers to set up vendor shops, stages for poets, and an art gallery for the Poetry Festival • Communicated successfully with the island's management team to deal with and recycle the festival's trash

Projects

- Gartus: A graphics engine built from scratch in Rust that focuses on linear algebra, code optimization, and parsers
- Gesture: A project that decrets hand gestures in video and translates them to keyboard/mouse inputs, using Mediapipe, Opency, and Keras
- Deet: A Work-in-progress debugger for C programs written in Rust.
- ediSON: Written in C, ediSON is an editor for JSON files so that users can edit, parse, and serialize JSON files with ease
- RISP: A lisp interpreter written in Rust

Honors and Awards

- Questbridge Match Scholarship
- 3rd Place Winner for the 2019 RCSB PDB Challenge
- Hack Rice 11 Challenge Winner

SKILLS AND INTERESTS

- Interests: Human Languages, Mathematical Problem Solving, Compilers, Teaching, Reading
- Rust, Haskell, Racket, C, Python, Java, Bash, JavaScript (Web Development) • Languages:
- Technology: Docker, Git, MySQL, MongoDB (Certification), Linux, Raspberry PI, Apache
- Skills: Leadership, Spanish, Beginner German, Public Speaking,