

Darren Key

Cornell University
dyk34@cornell.edu
(404)-849-3621

Github - <https://github.com/DarrenKey>
Portfolio - <https://darrenkey.github.io/>
Linkedin - <https://www.linkedin.com/in/darren-key/>

EDUCATION

Cornell University • Ithaca, NY

BA in Computer Science | Expected May 2025

- Clubs – Life Changing Labs: Organizing speaker events for entrepreneurship
- Cornell Data Science – Selective student-led project team for machine-learning related projects
- Cornell Quant Fund – Business club focusing on quantitative finance
- GPA – 4.092/4

Walton High School • Marietta, GA

2017 - 2021

- GPA – 4.70/4

Relevant Courses: Data Structures and Functional Programming, OO Programming and Data Structures, Multivariable Calculus, Linear Algebra, Applied Combinatorics, Intro to Probability, Differential Equations, Discrete Structures

EXPERIENCE

Computational Biology Research Intern | Cornell University

July 2019 - Present

- Worked with Professor Anthony Hay analyzing bacteria capable of degrading plastic
- Currently writing a paper regarding bacteria capable of producing an important compound known as astaxanthin
- Wrote scripts in R and Python using NumPy and Matplotlib to study portions of the bacteria's genome

PROJECTS

iOS App: TimeKeep – Planner and Tracker

November 2019 - Present

- Designed and developed an all-in-one time management app available on the iOS app market with 600+ units, 4.5 stars and 8 ratings, created all by myself
- Uses Swift and Realm (database alternative to CoreData and SQLite)

iOS App: YEP Chat – Better Emotes

June 2021 - Present

- Created and launched an alternative chatting app for the livestreaming website Twitch designed to increase audience participation currently out on the iOS app market with 1.8K+ units, developed all by myself
- Programmed in Swift, uses Twitch API and OAuth 2.0

Python App: Minimum Spanning Tree Visualization

June 2021 – July 2021

- Built GUI project to visualize Prim's and Kruskal's algorithm
- Written in Python and tkinter

24 Battle Royale

February 2022 – Present

- Developed along with two others a multiplayer game where multiple players play the card game 24 [a game where when given four cards, the goal is to make 24 just using elementary operations] until one person is left
- Programmed in OCaml

My Website

February 2022 – Present

- Available at darrenkey.github.io
- Programmed in HTML, CSS, and JS and uses JQuery

AWARDS

Cornell – Rawlings Presidential Scholars Program

May 2021

- Part of ~1% of incoming freshman at Cornell selected to be provided resources and a scholarship for research based on determined aptitude and previous research

Northwestern University – Murphy Program

May 2021

- Granted admission to Northwestern and selected as a Murphy Scholar as one out of 20 out of 450+ applicants to be granted resources and support for the development of research and entrepreneurial talent based on determined aptitude

SKILLS

Python, Java, Swift, HTML, CSS, Git, SQL, R, OCaml