

# Adhvik Kanagala

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## Education

### Carnegie Mellon University

*Bachelor of Science*

May 2024

Intended transfer to Computer Science in Spring 2022

GPA:

3.92 (Dean's List, High Honors)

*Research Areas:*

Language Production through Typing

*Additional Minors:*

Cognitive Neuroscience

*Relevant Coursework:*

- [15-213](#) Introduction to Computer Systems
- [15-150](#) Principles of Functional Programming
- [15-122](#) Principles of Imperative Computation
- 21-127 Concepts of Mathematics
- [15-112](#) Fundamentals of Programming and Computer Science

## Activities

### ScottyLabs

Tech Project Lead, ScottyMaps

### Nozari Lab

Undergraduate Research Assistant

## Skills

*Languages:*

Python • C • Standard ML • OCaml • Javascript • Typescript • Dart • R • MATLAB

*Technologies:*

Git • MongoDB • React • Flutter • APIs

*Other Skills:*

Teaching • Review

## Work Experience

[15-112 Fund. of Programming and Computer Science](#) • Teaching Assistant Feb 2021 - Present

- Collaborate with professors to lead the review team, which provides actionable feedback and approves class notes, assessments, assignments, and all other student-facing material before public release
- Develop practice materials, teach group sessions of 5-100 students, tutor struggling students, grade assignments and assessments, hold office hours for 2+ hours per week.

[Nozari Lab, Carnegie Mellon University](#) • Research Assistant

Feb 2021 - July 2021

- Worked with the [jsPsych](#) library to build and deploy a web-based linguistics experiment to investigate language production pipelines through the task of typing words
- Built a processing tool in Python to categorize linguistic errors in typed input

[Taylor Lab, Princeton University](#) • Research Assistant

June 2019 - August 2019

- Used virtual reality simulations to evaluate the effects of 3D cues on depth perception
- Wrote custom scripts using R to conduct statistical analysis on over 12,000 trials

## Projects

[ScottyMaps \(Working Title\)](#) • 2021-2022

- Interactive navigation mobile application for the Carnegie Mellon community
- Provides indoor and outdoor routing between any two points on campus
- Expected completion: spring of 2022

[Sports Management Dashboard for National Sports Council of Sri Lanka](#) • Summer 2021

- Used the [MERN](#) stack to digitize player management for Sri Lankan national athletics
- Desktop website for sports associations and national council to track and approve activities and payments
- Mobile app (Flutter) for players and coaches to record activities and track payments

[Tartanhacks Dashboard](#) • 2020-2021

- Dashboard application built using Flutter for iOS, Android, and the web
- Implemented leaderboards, check-in systems, project submission
- Used for TartanHacks 2021, a nationwide hackathon run by ScottyLabs@CMU
- Deployed a backend API with MongoDB and Express.js to manage hacker and event data

[Primrunner](#) • Fall 2020

- Rogue-like mazerunner game that utilizes Prim's algorithm to generate successively larger and larger mazes filled with weapons, powerups, and computer-controlled enemies
- Built in Python

## Research and Publications

[Protein Analysis of selected genes of \*Landoltia punctata\*](#)

*Author*, Multiple sequences published on NCBI's GenBank (2020)

[A Tale of Twisted Tentacles](#)

*Co-Author*, Case study on calamari food impaction with gastrointestinal bleeding (2018)