

# Adhvik Kanagala

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## Education

**Carnegie Mellon University**  
*Bachelor of Science*  
Computational Neuroscience,  
May 2024

GPA: 3.81 (High Honors)

*Research Areas:*

Language Production through  
Typing

*Additional Minors:*

Computer Science

*Relevant Coursework:*

- 15-112 Fund. of Programming and Computer Science
- 21-127 Concepts of Mathematics
- 85-219 Biological Foundations of Behavior

## Skills

*Languages:*

Python · Flutter/Dart · R ·  
MATLAB

## Activities

**ScottyLabs**

Tech Project Lead

**Nozari Lab**

Undergraduate Research  
Assistant

## Work Experience

**15-112 Fund. of Programming and Computer Science** · Teaching Assistant Spring 2021

- Work with a brilliant 50-member staff as well as 2 professors to deliver a world-class introduction to the principles of computer science, taught in Python
- Teach group sessions of 5-100 students, individually tutor struggling students, grade assignments and assessments, hold office hours for 1.5 hours per week.
- Very proud of this one!

**Nozari Lab, Carnegie Mellon University** · Undergraduate Research Assistant Spring 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
- Project will move into the data analysis phase by April 2021

**Office Assistant** · Prime Medical Care, LLC Summer 2020

- Worked as an assistant in a doctor's office, managing scheduling, communications, and patient intake
- Gained experience with effective communication and patient treatment
- Automated multiple administrative office procedures, such as hours collection and billing tracking

**Taylor Lab, Princeton University (Lab Learning Program)** · Research Assistant Summer 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!

**Tartanhacks Dashboard** · 2020-2021

- Dashboard application built with Flutter for iOS, Android, and the web
- Used for TartanHacks 2021, a nationwide hackathon run by ScottyLabs@CMU
- Deployed a backend API to handle simplify event scheduling and participant project management

**Primrunner** · Fall 2020

- Rogue-like mazerunner game that utilizes Prim's algorithm to generate successively larger and larger mazes filled with computer-controlled enemies
- Written entirely in Python
- Source code available on my Github!

**ScottyMaps** · 2021-2022

- Interactive navigation application for mobile, to be utilized by visitors to Carnegie Mellon
- Utilizes AR to present interactive waypoints and navigation info through the user's mobile device
- Project is in pre-production - phase 1 complete by EOY 2021, phase 2 complete by May 2022

## Research and Publications

**Protein Analysis of selected genes of *Landoltia punctata***

*Author*, Multiple sequences published on NCBI's GenBank

## Awards

- *Hack112 F20 Spiciest Meme*, for a Gordon Ramsay-themed Python linter