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 (Proficient) ·
Flutter/Dart (Intermediate) ·
R (Beginner/Intermediate) ·
MATLAB (Beginner)

Activities

ScottyLabs
Tech Project Lead

Nozari Lab
Undergraduate Research
Assistant

Work Experience

15-112 Fund. of Programming and Computer Science · Teaching Assistant   Feb 2021 - Present

- Work with a 50-member staff as well as 2 professors to deliver a 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.

Nozari Lab, Carnegie Mellon University · Undergraduate Research Assistant Feb 2021 - Present

- Working 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   June 2020 - August 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 U. (Lab Learning Program) · 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

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 (Working Title) · 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