

DISHANT NAGPAL

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EDUCATION

Maharaja Agrasen Institute of Technology, New Delhi

B.Tech Electrical and Electronics Engineering (EEE)

2020 - 2024

CGPA: 9.33/10.0

TECHNICAL SKILLS

Languages

Swift, C/C++, Python, HTML, PHP, JavaScript

Frameworks/Tools

UIKit, SwiftUI, ARKit, CoreML, Xcode, Git/GitHub, pydub, SQL

Computer Sci.Fundamentals

Data Structures, Algorithms, Mobile Application Development, Mathematics

EXPERIENCE

Software Engineering Intern

July 2022 - Present

Simbo.AI

Remote, USA

- Developed a threaded server and client architecture using socket programming in Python and PHP to render marked up text in either HTML or Quill format.
- Developed a python script(slicingAudio.py) which slices .mp3 files based on their timestamps and length of audio using their assigned .srt files.
- slicingAudio.py creates short voice notes that were human understandable, which resulted in easier communication between doctor and their patients.
- Developed a login/Register page as a part of the training period using HTML, CSS, Javascript, PHP, MySQL.

PROJECTS

AR Ruler Swift, iOS, UIKit, ARKit, SceneKit

[GitHub](#)

- A simple iOS app made using ARKit and SceneKit. Which can try to simplify little things in your life such as measuring stuff.
- Created an Augmented Reality Application from scratch to provide accurate measure upto two decimal places.
- Used Apple's tested framework ARKit and built on top of SceneKit.
- Calculation made using the 3-D co-ordinates in the real time-space.

Hacker News Swift, SwiftUI, MacOS, iOS, Hacker News API, Networking

[GitHub](#)

- A simple to use yet very powerful tool for the tech heads looking for daily dose of tech news.
- Made an iOS plus MacOS application using the Hacker News API and catalyst.
- Used ScrollView UI element to make the news feed scrollable.

PrivacyPa Swift, SwiftUI, iOS, Educational

[GitHub](#)

- A story based educational app for kids to learn about digital/online Privacy. Includes fun games, comprehensive activities plus a fun and wise GrandPa.
- Engaging educational content with emphasis on encryption, spamming, http vs https, Data leak and many more.
- Brainstorming activities to let kids comprehend and increase their thinking levels. Encryption explained in a very simple way just with a use of toggle switch.
- This is the project I submitted for 2022 Swift Student Challenge

ENGINEERING SKILLS/COURSEWORK

- Data Structures
- Intro To Programming
- Analog Electronics
- Software Development
- Algorithms Analysis
- Control System
- Circuit Analysis
- Circuits And Systems

EXTRA-CURRICULAR ACTIVITIES

- Selected as an Open Source Mentee for Swift Mentorship Program 2022 which is designed to encourage developers to actively participate in the Swift open source community.
- Participated in Apple WWDC Swift Student Challenge which is a global event to showcase the passion for swift and creativity of fellow students.
- Solved 100+ questions on Leetcode. Having more than 15 reputation stars for helping and contributing in the leetcode community also having more than 2.8k views on my data structures and algorithm solutions.
- Participated in Smart India Hackathon(SIH). Built an AI-Chatbot using python.
- Open Source Mentor and shortlisted lead applicant for Google Developer Student Club,MAIT.
- Active Member of IEEE MAIT Student Branch. Organised Machine Learning Workshop for engineering students.
- Tech Head and active member of the Poetry and Creative Writing society of our College.(Literary Umbrella).