Nirbhay Singh Narang

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Education

Cornell University — Ithaca, NY
BA Computer Science *GPA: 3.85* — Aug 2021 - May 2025

Professional Experience

Software Engineering Intern — Remote
Software Engineering Intern — May 2020 - July 2020

- Utilized Python, TensorFlow APIs to automate parsing of handwritten shipping manifestos with 91% accuracy. Built CV models to tag and classify promotions in print ads for Reckitt Benckiser to optimize future promotions with 86% accuracy. Consulted regularly with customers and team leads on project status, proposals and technical issues.

State Government of Rajasthan — Jaipur, India
Software Engineer — Dec 2019 - April 2020

- Wrote, designed, tested, and deployed iOS application with a Firebase backend and user authentication to register organ donors for the state. Verified operational and UX integrity of app for future release. Developed user interfaces per client-provided parameters.

InvenTree — Delhi, India
Chief Technology Officer — January 2020 - January 2021

- Co-founded grassroots startup designed to be India's first digital tree inventory. Single-handedly wrote, tested, and deployed iOS application with 10K+ registered users, 70K+ trees added to the database in 3 countries. Integrated Firebase SDK, Google Maps SDK to build app with custom authentication and a real-time interactive map view. Implemented a miniature social network feature allowing users to host and join tree plantation drives.

Skills

Programming Languages and Frameworks: Python, C++, Java, Swift, Dart/Flutter, Flask

Projects

Safely.ai *Python, Swift, Tensorflow* — https://safely-ai.netlify.app/
Using Python, a YOLO Object Detection Model, and a COCO annotator, built a Real-Time Heavy-Vehicle Detection with integrated ANPR capabilities. Deployed as a Streamlit web-app. Using TensorFlow for Swift, developed a Real-Time Road Pothole Detection based on a YOLO model. 'RoadDetect' app uploaded to App Store.

Garbify *Swift, CreateML* — https://garbify.netlify.app/
Using Swift and CreateML, built an Object Detection and Classification application for detecting and classifying types of trash and suggesting suitable recycling methods for iOS.

FindMyParty *Flask, Swift, Firebase*
iOS App to help users host & find parties based on geographical location, backend built with Flask with 10+ routes, front-end built in Swift. 2nd in Best Overall Category at the Cornell AppDev HackChallenge.

SeeSpeech *Python*
Using Python and supporting libraries, built an NLP-based Speech/Text to Indian Sign Language Translator. The translator can take speech/text/handwriting as input and will then output a .mp4 file containing the ISL translation.

Hidden Biases *Swift*
Developed a native iOS application in Swift to help users identify inherent biases they hold based on the Harvard Implicit Association Test. Uploaded on App Store.

Organisations

Computers For Convicts
Computers For Convicts is a social initiative I co-founded which is aimed towards increasing accessibility towards digital education in prisons.

Cornell Design and Tech Initiative
Software Engineer at an on-campus project team. Working on a Flutter- based mobile app to organise scavenger hunts on campus.