Lavanya Verma

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EDUCATION

University of California, San Diego GPA: 3.97

BS Computer Science (Junior) Sept 2019 - Dec 2022

Provost Honors | Warren College Honors Society | Tau Beta Pi - top 1/8th of Junior Engineering class

PROJECTS

**Occupancy Level Tracker:** (Full Stack – Android - **Java**)

* Designed and developed Business end and user end android apps using **Java** which shows the occupancy level and important details of markets for safe shopping during COVID using **Figma, Android Studio** and **Firebase**.
* Utilized Google’s Firebase to store user and market app data, authentication, thus enabling seamless access to data on multiple devices and connected the two apps synchronously in real time.

**Health Choice:** (Full Stack - Android - Technica Hackathon 2020 - **Java**)

* Developed Management Side app for the hospital and user end android apps using **Java** which shows hospital details during an emergency utilizing **Figma, Android Studio** and **Firebase**.

**GANS for Mammography Data Augmentation - Python:**

* Designed and Developed a discriminator and generator which offsets the data scarcity in Breast Cancer classification by augmenting images and generate realistic lesions.
* Implemented based on a U-NET architecture.

EXPERIENCE

**Software Engineer Intern**

ServiceNow, Remote – ITOM Discovery June 2021 – Sept 2021

* Interfaced between the Enterprise platform (Discovery Mid servers) and the user for the new features of Mutual Authentication epic. Worked with certificate management utility keytool, keystores and SSL certificates
* Built a testing framework by creating scripts to run probes and automating tests in Java.
* Practiced industry best practices such as: conducting code reviews and participating in distributed development.

**Undergraduate Researcher**  Oct 2020 – June 2021

Advisor: Professor Niema Moshiri

Topic: Scalable tools for studying viral evolution and epidemiology

* Taking advantage of CoV-2 which strongly influences genomic sequences of the viral samples collected from patients.
* Using these dependencies to build a model in **Python** to infer properties of a real epidemic using only viral sequences such as whether the virus originated within or outside a country.

**Web Development Intern**  Summer 2018-2019

National Informatics Centre, India

* Developed a grievance redressal website and application for the villagers to replace the hefty manual process.
* Researched and analyzed the population and designed a customized website
* Online platform switchover helped 28,000 people

**Research Intern**  May 2017-July 2017

Indian Institute of Technology, Mumbai, India

* Researched and worked on IOT: Point Care Devices i.e. **cloud** connected Medical Devices
* Key member in the improvements in design feature inputs in this project of cloud based medical devices.

LEADERSHIP

**Women in Computing – Tech Dev Chair**

* Mentor and empower undergraduate women with interest in Computer Science.
* Host technical workshops teaching modern technologies including Android App Development, Firebase, supervised learning algorithms.