Karan Doshi
karandoshi5@outlook.com, kdoshi1@seattleu.edu | +91 829105842

EDUCATION

Seattle University, Seattle, USA	**Sept 2022 -**

Candidate for Masters Degree in Computer Science

Don Bosco Institute Of Technology, Mumbai, India	**Expected: Jun 2022**
Candidate for Bachelor of Technology in Computer Engineering with Distinction	**(GPA 3.53/4)**

Relevant Courses: Data Structures, Algorithms, Operating Systems, Network Security and Management, Database Management, Compiler Construction, Computer Organization, Software Engineering, Cryptography, and Web Technology.

PROFESSIONAL EXPERIENCE

YWCA, Mumbai, India | *Project Intern- IOS and Android Application Developer*	**Aug 2020 - Oct 2021**

- Spearheaded the IOS authentication team and android development team for login, designed and coded profile pages for each user.
- Added an effective and practical feature which enables the admin to send event details to the concerned staff.
- Managed the end-to-end documentation with respect to the application and played a key role in testing and deploying the application.

ACADEMIC PROJECTS AND PAPER

Exploring Quantum Machine Learning (QML) for Earth Quake prediction |Machine Learning, Quantum Computation

- Innovated a model for predicting earthquake. Aim was to use this quantum technology in the prediction of earthquakes, a natural disaster resulting in a large number of deaths and destruction every year all around the world
- Gathered and sorted datasets for earthquake, using Kaggle, Dataworld. Employed IBM quantum simulators to test and optimize the datasets.
- Co-authored and published a paper on the same for IEEE publication, 2022 || https://ieeexplore.ieee.org/document/9848250

Reach med Tech |HTML, CSS, PHP, Ajax, Bootstrap, and Firebase

- Designed a website to check availability for Covid 19 equipment such as masks, gloves, medical kits, and ventilators.
- Built the UI of the website in Figma. Created the frontend of the website and made it user friendly, designed and implemented the backend side of the website.

Car Parking | React native, Redux, Tailwind CSS

- Programmed an IOS and Android app-based smart parking solution which enables users to find and book the parking space of their choice to avoid parking at no parking zones.
- Provided garages/car parks to users with parking spots at discounted rates. Incorporated Google API such as Google Distance Matrix API to provide travel distance and time for a matrix of origins and destinations and Distance, Directions Google API and Google places API.

Drowsiness detection system |Python, OpenCV, Keras, Pygame, Convolutional Neural Networks (CNN)

- Developed a drowsiness detection system built with Keras using CNN that will detect that a person's eyes are closed for a few seconds. This system will alert the person when drowsiness is detected.
- Gathered images from the webcam using OpenCV and fed into a deep learning model which classified whether the person's eyes are open or shut.

TECHNICAL SKILLS

- **Programming languages**: C, C++, Dart, Html, JavaScript, Python, R, SQL
- **Frameworks/libraries**: Ajax, Bootstrap, CSS, Flask, Flutter, Laravel, Node.js, React.js, React-Native, Redux, Scrum, TensorFlow

- **Databases:** MySQL, MongoDB
- **Cloud Computing:** AWS, Azure
- **Software:** Android studio, Figma, Git, GitHub, Unity, Visual-studio code, MicroSoft Excel

COURSES AND CERTIFICATIONS

- Scrum fundamentals certified by Scrumstudy and designated as a SFC. (May 2021)
- Web Development Bootcamp – London App Brewery (2020) offered by London App Brewery Flutter App Development Bootcamp with Dart London App Brewery (2020), Google Cloud fundamental: Core infrastructure (2020)
- Programming with everybody (Getting started with Python) University of Michigan (2020), IP addressing and subnetting (2020), and Introduction to Data Analytics for Business- University of Colorado Boulder (2021), Machine Learning by Stanford University (2021) offered by Coursera

EXTRA CURRICULAR ACTIVITIES

- Volunteered for a vaccination drive along with Rotary Club, Ghatkopar, Mumbai in collaboration with Rane Hospital. Organized the drive by helping senior citizens to register and book and appointment for vaccine doses, from 2021-2022.
- Serving as a volunteer of Anjeze Charitable Trust aiding in providing timely treatment through Emergency funds, helped cancer affected children to start medication without any delay and distributed food, clothing and healthcare.