Rohan Mandrekar

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EDUCATION

The University of Texas at Arlington   Arlington, Texas
Master's in Computer Science   GPA: 3.7/4.0   Jan, 2021 − Dec, 2022
Notable Courses: Computer Vision, Bioinformatics, Neural Networks, Machine Learning, Data Mining

NMIMS University   Mumbai, India
Bachelor of Technology in Computer Engineering   Aug, 2016 − Apr, 2020
Notable Courses: Design and Analysis of Algorithms, Artificial Intelligence, Python, Java, C, C++, Software Engineering

TECHNICAL SKILLS

Programming Languages: Python, C++, C, Java, JavaScript, React, Node JS
Frontend Development: HTML, Bootstrap, CSS, Flutter
Backend Development & Tools: Flask, Django, Git, SQL, MySQL, Selenium, MongoDB, Hadoop, GCP, Spring Boot, Spring Framework, Spring MVC, Docker, Kubernetes, Microsoft Azure, Junit
Computer Vision & Machine Learning : Numpy, TensorFlow, Spark (PySpark), Pytorch, Keras, Matplotlib, Matlab, Pandas

WORK EXPERIENCE

The University of Texas at Arlington   Arlington, Texas
Graduate Teaching Assistant   Sep, 2021 − Dec, 2022
- Prepared, presented and guided students through Algorithms based assignments, Creatively instill Algorithms foundations in 100+ students for the Theory of Computing course and Data Mining course
- Graded exams and assignments for 100+ students

The University of Texas at Arlington   Arlington, Texas
Information Technology Assistant   Apr, 2021 − Sep, 2021
- Singlehandedly automated encryption key upload process using Python Selenium reducing weekly hours by 12.9%
- Guided 4 employees with software configuration and the encryption process
- Optimized the configuration process accelerating it by 4 times

CureAssist   Mumbai, India
Software Engineer   Apr, 2020 − Dec, 2020
- Worked as a part of Agile environment with bi-weekly sprints and daily Scrum meetings with backlogs and story points
- Employed a scalable microservice architecture with Spring Boot-based services that communicate with each other via RESTful APIs
- Successfully built 2 Dialogflow based chatbots for covid self-assessment and patient appointment booking
- Integrated chatbots with backend Node JS based APIs and MongoDB db for seamless integration with CureAssist app

PROJECT EXPERIENCE

MedBase
- Engineered a full-stack web application for doctors to manage patient data using Python, Flask, and GCP. Implemented a robust database design using Firebase to manage data relationships and perform CRUD operations, and created an intuitive front-end interface using Jinja2 templates, HTML5, CSS3, and JavaScript to enable seamless user interaction
- Hosted the service using Google Cloud Platform (GCP) to make it available to 5 clients across the city

Skin Cancer Classification *http://rm-skin-cancer-detection.herokuapp.com/*
- Developed a web-app using Python Flask with a frontend built using HTML Bootsrap that classifies skin lesions into 7 categories of skin diseases
- Designed a Convolutional Neural Network architecture from scratch using Tensorflow Keras achieving accuracy of 95.01%
- Hosted the app using Heroku which is a cloud based platform

LEADERSHIP EXPERIENCE

Engineering Student Council - Executive Vice President   Jan, 2022 − Dec, 2022
- Coordinate between 3 committees and led the remaining officers to conduct 15+ events resulting in 4500 student interactions
- Established the photography committee resulting in 600% increment in volume leading to better posts which raised the ESC social media following and event attendance by 240% and 270% respectively
- Represented over 7400 engineering students to the Office of President and the Dean of Engineering

Google Developer Student Clubs - Event and Resource Manager   Sep, 2021 − Dec, 2022