

Mohamed Ibrahim

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EDUCATION

VIT UNIVERSITY

M.TECH IN COMPUTER ENGINEERING
WITH SPECIALIZATION IN
CYBER-PHYSICAL SYSTEMS

CGPA:8.04/10.0

Graduated On: June 2023

LINKS

Github:// mohamedibrahim26

LinkedIn:// mohamedibrahim26

LeetCode:// mohamedibrahim26

HackerRank:// mohamedibrahim71

COURSEWORK

Data Structure and Algorithms
Object Oriented Programming
Operating Systems
Database Management Systems
Computer Networks
Machine Learning

SKILLS

PROGRAMMING

Client-Side

• React.js • Java Script • Bootstrap •
HTML • CSS

Server-Side

• Java • Spring • Node.js • Express.js •
TypeScript

DataBase

• MongoDB • Oracle SQL

ACCOMPLISHMENTS

- Won 2nd place out of 150 teams in Research Based Learning at VIT University to develop a **Framework solution for Health Monitoring System**.
- Earned **Gold badge** in Java at **HackerRank**.

CERTIFICATES

- Completed online certification from **University of Michigan** in **Python Basics**.
- Completed online certification from **IBM** through **Cognitive Class** in **Data Privacy Fundamentals**

EXPERIENCE

CABTO INFOTECH PRIVATE LIMITED, BENGALURU

FULL-STACK DEVELOPER | NOV 2023 - PRESENT

- Spearheaded the creation of **front-end** and **back-end APIs** for a **cab-based Web application** using **Node.js**, **Express.js**, and **React.js**, resulting in a **30 %** reduction in booking processing time and improved overall system performance.
- Developed and implemented a scalable cab-based Web application using **Node.js**, **Express.js**, and **React.js**, resulting in a seamless **user experience** and **increased customer satisfaction** by **40 %**.

INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, DESIGN AND MANUFACTURING, KANCHEEPURAM

RESEARCH TRAINEE INTERNSHIP | NOV 2022 - DEC 2022

- Analyzed the efficacy of **Augmented Reality** in enhancing **User Experience**, resulting in a **25 % increase** in user satisfaction and a **15 % reduction** in customer support requests.
- Conducted research on **Human-Computer Interaction** and **User Support Systems**, evaluating 3 distinct **Agile prototyping methods**, resulting in **40 % quicker MVP iterations** and **30 % faster development cycles**.

INDIAN INSTITUTE OF TECHNOLOGY, BOMBAY

RESEARCH INTERNSHIP | MAY 2022 – JUNE 2022

- Developed and constructed a **working telescope prototype** that adhered to **Meinel's Law**, leveraging a rectangular strip instead of a circular mirror, leading to **82% decrease in production expenses**, significantly boosting cost-effectiveness.
- Executed an **82 % cost reduction** in **telescope mirror** procurement by implementing a strategic shift from **circular to rectangular design**, resulting in an **\$82,000 annual savings**.
- Technologies used: **Simscale**, **Autocad**, **Matlab**, **Solidworks**, and **Onshape**.

PROJECT

INTEGRATION FRAMEWORK SOLUTION FOR HEALTHCARE MONITORING | Oct 2021 – Apr 2022

- Implemented a comprehensive **health monitoring system** encompassing **heart rate**, **oxygen level**, **ECG**, **temperature**, **humidity**, resulting in a **50 % increase** in **patient satisfaction** and a **40 % reduction** in **hospital readmission rates**.
- Orchestrated **emergency notification feature** within the **health monitoring system**, instantly alerting caretakers of any **abnormal fluctuations** in patients' vital signs, resulting in a **35 % decrease** in **hospital-acquired infections** and a **20 % reduction** in **patient mortality rates**.
- Technologies used: **ESP 32**, **PHP**, **MySQL Apache**, and **HTML**.

PUBLICATION

- Shola Usharani, Gayathri Rajakumaran, Anjana Devi Nandam, and **Mohamed Ibrahim**. "**Integration Framework Solution for Healthcare Monitoring**." In Journal of Physics: Conference Series, vol. 2471, no. 1, p. 012018. IOP Publishing, 2023..