Mubaraquali Muhammed Sufyanali

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EDUCATION

Singapore University of Technology and Design – BEng in Computer Science & Design   Sep 2021 to May 2025

EXPERIENCE

Full Stack Developer Intern   May 2024 to Sep 2024
Singapore Airlines   *Singapore*
- Developed a website using React, Typescript to monitor the health status of all self-check in kiosks used by SQ
- Collaborated with the UI/UX team and Product owners to brainstorm and refine user interface designs.

Hardware Verification & Automation Intern   Aug 2023 to Dec 2023
Hewlett Packard Enterprise   *Singapore*
- Developed two automation scripts utilizing computer vision, optical character recognition (OCR) and image processing reducing manual labour by 80% using Python
- Implemented a Vue-based dashboard to manage automation insights
- Worked with a US-based team to refine script logic and deployment

Software & Process Automation Intern   Jun 2020 to Sep 2020
Infineon Technologies   *Singapore*
- Analysed the existing automotive development process to develop decision-making automation tool using Python
- Examined development and production data to conceptualize data analytic framework
- Evaluated, developed and implemented predictive analytics models and algorithms

PROJECTS

Foody | *React Native, Typescript, Expo, AWS, Figma, Gluestack, S3, Redis*
- Built a mobile recommendation app for F&B discovery based on user preferences, hosted on the Apple App Store
- Developed a proprietary recommendation algorithm powered by user-generated data and AWS-hosted services.
- Launched a closed beta with 102 external testers at Echo Cafe, collecting feedback and performance insights for iteration.

Driver Fatigue System | *Python, Tensorflow, Pandas, Matplotlib, OpenCV, Seaborn, Pillow, Mediapie*
- Developed a real-time driver fatigue detection system using computer vision and deep learning to monitor facial cues and detect drowsiness with over 92% accuracy.
- Leveraged Mediapipe's Face Mesh (468 landmarks) to compute Eye Aspect Ratio (EAR) and blink duration to determine signs of fatigue.
- Implemented alert logic that triggers visual/audio warnings after detecting micro-sleep events, reducing false negatives by ~18% after threshold tuning

SUTDup | *Java, Android programming, Firebase*
- Developed a real-time mobile shopping app tailored to SUTD students using Java and Firebase
- Led a team of five to design and implement core functionalities
- Deployed the app for production and successfully tested by students during a live showcase

Data Driven World | *Python, Matplotlib, Pandas, Seaborn*
- Applied Machine Learning to predict the yield of oats, considering environmental factors affecting crop growth
- Implemented full pipeline from data cleaning to prediction.
- Achieved an accuracy of 80-90%

CO-CURRICULAR

President   Apr 2023 to May 2025
SUTD Fitness Club   *Singapore*
- Spearheaded the creation of a new gym branch within the club, leading a group of 75 active members.
- Conducted training sessions, providing guidance and fostering a supportive environment for fitness enthusiasts.

SKILLS

Languages: Python, JavaScript, TypeScript, Java, HTML, CSS, SQL, Bash
Frameworks: React, React Native, Expo, Git, Firebase, Sklearn, Jupyter