

Pranesh Ulleri

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SUMMARY

Software engineer with 2+ years of experience building scalable full-stack web and mobile applications using MERN and React Native. IEEE-published researcher in machine learning and recommendation systems with strong foundations in algorithms and system design. Enthusiast in quantum computing with hands-on experience using Qiskit and IBM Quantum Lab; passionate about applying research to real-world engineering challenges.

TECHNICAL SKILLS

Programming Languages: Python, C++, JavaScript, PHP

Core CS: Data Structures, Algorithms, OOP, System Design

Frameworks: Qiskit, React Native, Android Studio, Flask, Laravel

Stack: MERN stack, Python ML stack

DevOps/Cloud: Google Cloud Platform (GCP), Docker, Kubernetes, CI/CD, Firebase

Tools: Git, Linux, Postman, VS Code

Creativity: Premiere Pro, Graphics Designing, Figma, Canva, Procreate

PROFESSIONAL EXPERIENCE

Full Stack Development (Freelance Projects)

Jan 2024 - Present

- ESS Bahrain : Developed, hosted and maintained the official website for ESS Bahrain using modern web technologies, enhancing the company's digital visibility.
- HENA.AI : Worked as a front-end developer providing UI/UX enhancements using HTML, CSS, and Laravel. Improved interface consistency and usability, while gaining hands-on experience in PHP-based frameworks.
- Attempted and Qualified GATE Examination.
- Completed self-paced courses in Quantum Computing.
- Practiced with Qiskit SDK and IBM Quantum simulators.

My Market ECommerce, Bahrain

Jan 2022 - Dec 2023

- Designed intuitive and responsive mobile UI components to enhance user engagement across Android and iOS platforms.
- Developed application using MERN stack & worked on React.JS and React Native.
- Diagnosed and resolved critical bugs, improving mobile application stability and reducing crash reports by 30%.
- Conducted platform testing on Shopify and WordPress WooCommerce integrations to ensure seamless e-commerce functionality and third-party compatibility.

Bahrain Olympic Committee (BOC), Bahrain

Sep 2021 - Dec 2021

- Managed IT operations and support for the Bahrain Olympic Academy (BOA), a sub-organization of the Olympic Committee.
- Gained hands-on experience working within enterprise-level IT infrastructure and networking environments.
- Designed and implemented a structured workflow system to streamline project delivery and improve internal coordination.

Google Edu(Fully Sponsored) with Qwicklabs, India

Aug 2019 - Nov 2019

- Learned to develop, deploy and maintain apps in GCP.
- Got familiarized with Cloud Solution.
- attempted exam and Google Certified as Associate Cloud Engineer”.

amFOSS, India

2017 - 2019

- Began Open Source Dev and Android Development.
- Contributed to LibreOffice Open Source project.

Codinza Web Club, India

2017

- Learned, Developed Telegram Bot using Node.JS
- Full Stack Development, mainly used HTML, CSS, Bootstrap for Frontend, Node.JS for Backend and MongoDB for Database

PROJECTS

- **Music Recommendation System based on Emotion:** Algorithm that recommends songs based on the emotions of the user. Machine Learning Concept: Recommendation system, Facial emotion classification, emotion extraction from lyrics, used Random Forest Classifier and XGBoost. XGBoost Model with an accuracy in range 80 - 85%
- **Contactless Employee Management System with Mask Detection and Body Temperature Measurement:** Theoretical and procedural aspects leading to the practical application of the management module for mask detection and body temperature measurement. Recognition: Listed by the World Health Organization (WHO).
- **Covid Sentiment Analysis on X (former Twitter dataset):** Analytic study of Twitter data based on the keyword "Covid".
- **Text Extraction from Image - Mobile App :** Developed Native Mobile app using Firebase ML kit to extract text from images (OCR).
- **Image Processing Software:** Developed an image processing software GUI using Java Technologies.
- **Sujitva Telegram Bot:** Developed a bot to collect and analyze user data on waste segregation. Engineered the dataset to identify patterns and inform improvements in local waste management practices.
- **SSR - Student Social Responsibility:** Led a session at Govt. LPS Panamanamanayil (Kollam) on sustainable waste management. Conducted an origami activity to create paper bags and concluded with a student-led sapling planting initiative.

EDUCATION

Amrita Vishwa Vidyapeetham, India

CGPA : 8.38 with Distinction

BTech - Computer Science & Engineering

2017-2021

Al Farook residential Senior Secondary School, India

CGPA : 7.96

Senior Secondary

2015 - 2017

The Asian School, Bahrain

CGPA : 9.0

High School

2003-2015

PUBLICATIONS

- Music Recommendation System based on Emotion [DOI : 10.1109/ICCCNT51525.2021.9579689](https://doi.org/10.1109/ICCCNT51525.2021.9579689)
- Development of Contactless Employee Management System with Mask Detection and Body Temperature Measurement using TensorFlow [DOI : 10.1109/WiSPNET51692.2021.9419418](https://doi.org/10.1109/WiSPNET51692.2021.9419418)

CERTIFICATIONS

- **Google Certified Associate Cloud Engineer** Google certified - Certificate ID : OESVup
- **Cloud Specialization** Architecting with Google Compute Engine
- **Cloud Specialization** Data Engineering on Google Cloud