

Mary Mishal Francis

Software Engineer

marymishalfrancis@gmail.com | +91 8943821304 | Ernakulam, Kerala

LINKEDIN | GITHUB | LEETCODE

EDUCATION

RAJAGIRI SCHOOL OF ENGINEERING AND TECHNOLOGY
BACHELOR OF TECHNOLOGY IN INFORMATION TECHNOLOGY
CGPA: 7.71

September 2020 - May 2024
Kerala, India

RAJAGIRI HIGHER SECONDARY SCHOOL
12TH HIGHER SECONDARY EDUCATION
Percentage: 85.15%

June 2018 - May 2020
Kerala, India

RAJAGIRI HIGHER SECONDARY SCHOOL
10TH SECONDARY SCHOOL LEAVING CERTIFICATE
Percentage: 90%

June 2017 - May 2018
Kerala, India

EXPERIENCE

IDATALYTICS | INTERNSHIP

Kerala, India | September 2024 – December 2024

- Acquired advanced Power BI, MySQL, Tableau, and MS Excel proficiency through a comprehensive data analytics training program.
- Developed expertise in data visualization, dashboard creation, and SQL queries to extract and analyze complex datasets.
- Designed and executed data-driven projects to solve practical problems, demonstrating analytical and problem-solving skills.

NEST CYBER CAMPUS | INTERNSHIP

Kerala, India | 17 October 2022 – 31 October 2022

- Conducted vulnerability assessments on virtual environments using tools like Kali Linux, VirtualBox, and Nmap, identifying potential security weaknesses.
- Simulated cyber-attacks through penetration testing, identifying vulnerabilities, and proposing security improvements.
- Utilized Nmap to analyze network traffic and logs, detect anomalies, and strengthen system defenses.

ASTER MEDCITY | INTERNSHIP

Kerala, India | 3 October 2022 – 8 October 2022

- Gained invaluable insights into the role of IT in the healthcare sector.
- Explored various tools and software applications used for data management.
- Enhanced understanding of IT's role in streamlining healthcare operations and improving patient care.

SKILLS

PROGRAMMING LANGUAGES
LIBRARIES/Frameworks
TOOLS / PLATFORMS
DATABASES

Python, C, Java, HTML/CSS, JavaScript, SQL
Django, OpenCV
Git, Visual Studio Code, Power BI, Eclipse, Jupyter
MySQL, SQLite, MongoDB

PROJECTS / OPEN-SOURCE

SIGN-IFY ROAD SIGN DETECTION SYSTEM

YOLOv8 nano

- Developed a real-time road sign detection system using YOLO (You Only Look Once) and Raspberry Pi, improving driver alert responses by 30%.

- Collected and labeled over 7,000 traffic images for model training by applying advanced image processing techniques.
- Employed machine learning algorithms to detect and classify traffic signs, ensuring accurate and reliable real-time feedback.

STUDENT PLACEMENT MANAGEMENT SYSTEM

Django

- Built a web-based platform using Python-Django and SQLite to manage placement opportunities, enabling students to apply for jobs and companies to post openings efficiently.
- Designed a responsive, user-friendly interface and incorporated security measures like user authentication and data validation.

CERTIFICATIONS

- Software Engineer Certification - **HACKERRANK**
- Accenture Nordics Developer Virtual Internship - **FORAGE**
- Tata Group Data Visualisation: Empowering Business with Effective Insights - **FORAGE**
- Data Analytics Power BI Workshop - **TECHTIP 24**

HONORS & AWARDS

- National Service Scheme Volunteer