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Bangalore | fasnayousaf2020@gmail.com | +91-7736957417 | PortFolio | linkedin.com/in/fasnamfd

Education

Government Engineering College Idukki 2020–2024
B.Tech in Electronics & Communication Engineering Kerala, India CGPA: 7.65 / 10
Courses: Logical Circuit Design | DSP | Machine learning | computer vision | Wireless communication

Experience

Java Full Stack Developer Trainee Sept 2024 – June 2025
Quest Innovative Solutions
Completed structured training program in Java full-stack development.

- Learned Core Java, Servlets, Hibernate, JSP, and Spring Boot
- Building front-end components using HTML, CSS, JavaScript, and Angular.
- Actively developing strong foundational skills in object-oriented programming, Java Collections Framework, and multithreading.

Part-Time E-Commerce Content Design Assistant Sept 2024 – June 2025
Gokulam Bueno Care
Designed product images and managed Shopify listings.

- Wrote SEO-friendly content and maintained inventory.
- Ensured consistency in visuals and product details.

Technologies

Languages: Java,Python,SQL,JavaScript,C++
Tools: Eclipse, spring tool suite, Postman, GitHub, Arduino, AutoCAD, Fritzting, LTspice, Figma, Edge impulse, MATLAB, Visual Studio, Canva, MySQL Workbench, Canva
Web-Development: HTML, CSS, JavaScript, jQuery, Bootstrap, Hibernate,Servlet,JSP,Spring,Spring Boot,Angular

Projects

Portfolio Website June 2025 – July 2025
Portfolio

- Developed a responsive portfolio website to showcase projects, skills, and contact details.
- Utilized Bootstrap for layout and responsiveness, and JavaScript with jQuery for interactivity including smooth scrolling and form validation.

Website for a public swimming pool Jan 2023 – July 2025
bluebucks

- Designed and developed a responsive website for a public swimming pool using HTML, CSS, and JavaScript.
- Focused on user-friendly layout, visual appeal, and basic interactivity to provide visitors with pool details, timings, and contact information.

Calculator Jan 2025 – Feb 2025

- Built a calculator using AWT and Swings

Asset tracking and monitoring system: An IoT device enabled with Tiny ML Dec 2023- May 2024
View B.Tech Main Project Report

- Developed a supply chain **asset tracking system** using **IoT and LoRaWAN** for long-range communication.
- Utilized a LoRa gateway to track real-time asset location over wide geographic areas.
- Integrated **TinyML models** to monitor movement patterns and **detect anomalies indicating potential mishandling.**

Third Eye for Blind - Ultrasonic Glove

June 2023 – Aug 2023

- Designed a smart glove system to **assist visually impaired individuals** in navigating both indoor and outdoor environments.
- Built using Arduino Nano, ultrasonic sensors, vibration motors, and a buzzer.
- **Enabled obstacle detection through haptic** (vibration) and audio (buzzer) feedback.
- Provided real-time awareness of nearby objects, enhancing mobility and safety.

Automatable Dosa-Maker

Jan 2022 – Oct 2022

- Designed and built an **automatic Dosa maker** as part of the LEAP (Learning Engineering through Activity Program) organized by the Incubation Cell, IIT Mandi.
- Automated the dosa **preparation process, including batter dispensing, spreading, and heating mechanisms.**
- Gained hands-on experience in embedded systems, automation, and mechanical design integration.

Achievements & Awards

- First Prize in GTA CODESTORM (36-hour Hackathon) conducted by GTech μ Learn – Hardware Domain.
- First Prize in Technical Quiz conducted by T Works.
- First Prize in Robotic Ideation Contest conducted by IEEE SB MACE.
- Second Prize in Technical Article Writing conducted by IEEE PES GECI.