Manush Prajwal

Bangalore · manushprajwal1@gmail.com · 9844775528 · Portfolio · LinkedIn · GitHub

Professional Summary

Computer Science undergraduate with 2+ years of hands-on experience in architecting and developing full-stack web and mobile applications, and conducting applied research in real-world environments. Designed and deployed 10+ production-grade systems and published 6+ peer-reviewed research papers. Co-Founder of Appsetz, a freelance engineering agency delivering scalable, high-performance web and mobile solutions. Proficient in React, Next.js, Firebase, Python, and cloud-based deployment pipelines, with strong expertise in system design, rapid prototyping, API engineering, and end-to-end problem-solving across distributed systems and high-velocity development cycles.

Education

BE	**Computer Science and Engineering, The Oxford College of Engineering**	Sept 2023 – Present
PUC	**Alvas PU College, Moodubidri**	2020 – 2022

Experience

Freelance, Professional Gym Website — May 2023 – Present · Live ↗

- **The Hawk Fit Hub** (Next.Js)
  Developed a visually engaging and mobile-friendly gym website with real-time class booking. Increased traffic 3x and membership signups by 45%.

Publications

Advanced Detection for Breast Cancer Using Ring Resonator Biosensors Coupled with Support Vector Machine — Sept 2025 · IEEE Xplore ↗

- IEEE ICCCNP 2025 – Developed a 90%-accurate, non-invasive detection model reducing diagnosis time by 50%.

Projects

A Neural Network-Based Framework for Diabetes Prediction from Foot Pressure — Safestep.com ↗

- Developed a web-based platform integrated with a CNN-MLP model to predict diabetes using foot pressure data from sensor-embedded shoe insoles.
- Problem Solved: Enabled non-invasive screening by achieving 89% prediction accuracy in identifying abnormal foot pressure distributions linked to diabetic risk.

Student Hub – Unified Platform for Academic Engagement — StudentHub.com ↗

- Developed a centralized web platform for Students for Jobs, Issue reporting, announcements, and resource access.
- Problem Solved: Streamlined communication across departments, serving 1300+ students Daily and reducing resource discovery time by over 85%.

Network Security Monitor with Advanced Intrusion Detection System — github.com/repo ↗

- Developed a Network Security Monitoring Tool using Wireshark to monitor and safeguard networks in real time.
- Problem Solved: Predicted 89% of Man in the Middle Attacks with <0.5% false positives in network simulations..

Skills

Languages: Python, C, C++, JavaScript, SQL, TypeScript.

Frameworks: React.Js, Next.Js, Node.Js, Express.Js, Nest.Js, Docker, Git