

Shubham Bawane

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[LinkedIn profile](#)

Full Stack Software Engineer

PROFESSIONAL SUMMARY

- Full Stack Software Engineer with 4.5 years of experience building scalable backend services using Node.js and React.
- Experienced in developing high-traffic platforms handling millions of requests daily. Strong background in distributed backend systems, inter-process communication, and IoT integrations.

EDUCATIONAL BACKGROUND

B.E. ENTC (CGPA 9.26) – 2021

Government College of Engineering, Nagpur
Affiliated to RTM Nagpur University

CERTIFICATIONS

- The Complete 2021 Web Development Bootcamp (Udemy) [link](#)
- Complete A.I. & Machine Learning, Data Science Bootcamp (Udemy) [link](#)
- Reinvention with Agentic AI ([Accenture](#)).

ACHIEVEMENTS

- Selected in top 200 Innovations in Mayor innovation awards Hackathon 2.0, Nagpur (2019)
- Village Co-leader at Unnat Bharat Abhiyan, Nagpur Member of Innovation club, GCOE, Nagpur
- Project leader at Unnat Bharat Abhiyan, Nagpur
- participated in managing and organizing cultural and Outing events in Accenture – 2025
- Received Recognition Star of the Month Award in Accenture – 2026

PATENTS

- **Filed Patent on “Disaster Management and Quick Response System Using WSN & IoT.”**

– Developed a Wireless Network System to communicate node to node, providing road sign indications to help drivers avoid mishaps and assist emergency response teams.

PROFESSIONAL EXPERIENCE

Full Stack Engineering Analyst

[Accenture](#)

February 2022 – Present

- Developed and maintained middleware services for large-scale OTT platforms, handling millions of requests daily.
- Led the development of the SCM Listener application in VISA Project,
- Implemented inter-process communication (IPC) in Node.js to enhance communication efficiency between services. Optimized backend services to enhance scalability and performance, reducing latency and improving overall system reliability.
- Collaborated closely with frontend teams to ensure cohesive end-to-end development and efficient API consumption.

Junior Developer (IoT)

[ARAV Systems Pvt. Ltd. Nagpur](#)

September 2021 – February 2022

- Worked on IoT product prototypes, integrating hardware with software using Raspberry Pi and Python.
- Developed real-time monitoring systems and IoT solutions with focus on data accuracy and efficiency.
- Gained hands-on experience in low-level system programming, hardware-software interfacing, and troubleshooting embedded systems.

TECHNICAL SKILLS

- **Programming Languages:** JavaScript (Node.js, Express.js), Python, C, C++
- **Computer Science Fundamentals :** Data Structures & Algorithms (DSA)
- **Frontend Technologies:** React.js, JavaScript (ES6+), HTML5, CSS3, TypeScript
- **Backend Technologies:** Node.js, Express.js, RESTful APIs,
- **Tools & Platforms :** Linux, Postman, Docker, AWS (EC2 , Lambda function), azure cloud function, serverless architecture, RedHat openshift,
- **Database Management:** MongoDB, MySQL , AWS Dynamo DB. AWS RDS
- **Inter-process Communication:** Node.js IPC, UNIX domain sockets, PIPE
- **Version Control:** Git, Bitbucket
- **Methodologies:** Agile, Scrum, JIRA, ADO
- **AI-Assisted Development Tools:** GitHub Copilot, Claude AI, ChatGPT codex
- **Machine Learning Fundamentals:** Scikit-learn, NumPy, Pandas, Data Preprocessing, Feature Engineering, Embeddings , Classification

PROJECTS DETAILS

- **Customer Health Survival Prediction |**

React, Node.js, Python, Scikit-learn

- Built a machine learning classification system to predict customer survival outcomes using Scikit-learn.
- Performed data preprocessing and feature engineering using Pandas and NumPy to prepare datasets for model training.
- Exposed the trained model through a Node.js REST API and integrated it with a React-based frontend for real-time predictions.
- Designed an end-to-end full-stack pipeline connecting ML inference with a web application.

- **Cattle Health Monitoring System (IoT)**

Final Year Project funded by Unnat Bharat Abhiyan

- Developed a system to monitor real-time health parameters of cattle, such as temperature and heart rate, using IoT devices.
Built a web-based interface for displaying monitored data, leveraging backend services to process and store sensor information.
- Utilized a combination of IoT hardware and web technologies (Embedded Systems, WSN, and Node.js) to deliver real-time insights, improving animal healthcare in rural areas.

- **Smart Dustbin (IoT)**

Project funded by Unnat Bharat Abhiyan

- Designed a waste management system integrating IoT sensors and solar power, enabling real-time data collection on waste levels. Developed a web application for monitoring multiple dustbins, with backend services built using Node.js for managing data flow and storage. Demonstrated the use of MERN stack technologies for real-time monitoring and data visualization.