

# Vinayak Kumbhar

## Software Developer

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## Profile

Full Stack Developer with over 3 years of experience in backend development using SQL and MongoDB. Proficient in Node.js API development, database integration (MongoDB, MSSQL, PostgreSQL), and frontend technologies (HTML, CSS, React Js). Experienced in Firebase integration, AWS EC2 deployment, and S3 bucket integration for backend services. Also skilled in collaborating on AI/ML projects and managing hardware communication through Python with 1 year of experience. Successfully delivered end-to-end solutions, including client coordination and deployment.

## Technical Skills

### Languages:

Javascript, Node Js, Python, React Js, OOPs (Object-Oriented Programming Concepts)

### Database:

SQL, MongoDB, PostgreSQL

### Cloud:

AWS (EC2, S3)

### DevOps:

Docker

### VCS:

GitHub, Git

### IDLEs:

VS code

### Tools & Frameworks:

Firebase, Microservices Architecture, RESTful APIs, Express.js, rclnode, WebSocket

## Certificates

- Java Full Stack (Profound Edu. Tech Pune)

## Education

**Bachelor of Computer Science,**  
Savitribai phule pune university

## Professional Experience

### Knest Manufacturing Pvt Ltd,, Knest Fs (File System)

September 2023 - present

- Collaborated with the frontend team and design team to gather software requirements and plan development.
- Developed backend APIs using Express.js with user authentication, authorization, and role-based access control for different departments.
- Integrated MongoDB for data storage and AWS S3 for managing file/zip folder storage with controlled access based on user roles.
- Implemented Redis server for in-memory caching to enhance performance and reduce database load.
- Implemented role management to ensure secure CRUD operations on stored files.
- Deployed the backend server on an AWS EC2 instance using PM2 for process management and scalability.

### Knest Manufacturing Pvt Ltd,

*Object Detection (Aluminum Framework) Computer vision Project*

09/2023 – present

- Retrieved data from a Python server and managed it using MongoDB.
- Configured Firebase for uploading and downloading files.
- Created a REST API to store results from AI/ML scripts.
- Collaborated with the AI/ML team for script execution and assisted in image processing, while communicating with Arduino via serial communication in Python.
- Proficient in designing and building APIs for efficient handling of image data locally, including features for uploading, processing, and retrieving images for thorough testing and validation.
- Skilled in developing secure Node.js APIs for transmitting image data to servers, ensuring robust authentication and data encryption measures are in place.
- Migrated the Vezanti server from Python to Node.js using rclnodejs for seamless ROS 2 integration, enhancing system performance and maintainability.
- Implemented Redis caching and WebSocket communication to enable efficient, real-time data exchange and improve overall responsiveness.

### Knest Manufacturing Pvt Ltd, Sensor Grid

06/2022 – 08/2023

- Developed a Sensor Grid API in Node.js for data exchange between sensors and hardware.
- Configured Firebase for notifications and integrated MongoDB to store sensor data.
- Managed data flow between sensors and the database through APIs.
- Deployed the API server on an EC2 instance of AWS running Ubuntu.

### Logicon Technosolutions Private Limited, Dabur Web Portal

10/2021 – 06/2022

- Collaborated with clients to understand their needs and reviewed the requirements thoroughly.
- Developed and tested APIs, ensuring proper database connectivity and optimal query performance.
- Created both the frontend and backend, implementing changes based on client feedback.
- Deployed the portal on the client's system and provided assistance with updates as needed.

### Logicon Technosolutions Private Limited, Dapada Portal

10/2021 – 06/2022

- Analyzed requirements and gathered feedback from clients for enhancements.
- Developed and implemented the requested improvements to the portal.
- Provided user support and deployed the portal on Azure and client systems.
- Created charts using Chart.js for data analysis and reporting.