



Rushikesh Diliprao Bhomale

Backend Software Engineer | Node.js & Python

✉ rushikeshbhomale@gmail.com

☎ +91 7448034353

📍 Bengaluru

🌐 LinkedIn

🔗 rbhomale17

🔗 Tech Portfolio

🔗 LeetCode

🏆 HackerRank

🎓 Professional Summary

Backend Software Engineer with ~2 years of experience designing and building scalable backend systems using Node.js, Express.js, Python, and GCP. Focused on microservices, API performance, with a passion for clean code and production-grade backend design.

🧠 Technical Skills & Tools

Programming Languages:

- JavaScript (Node.js)
- Python

Frameworks & Libraries:

- Node.js, npm
- Express.js
- FastAPI
- Flask

Databases:

- PostgreSQL (schema design)
- MongoDB

Cloud & DevOps:

- Google Cloud Platform (GCP)
- Git
- Docker

Tools & Technologies:

- Rest APIs and design, Auth (JWT, RBAC), CI/CD
- Microservices

Soft Skills

- Adaptable & Quick Learner
- Effective Collaborator
- Technical Problem-Solving
- Code Review & Helping Others

🎓 Education

Full Stack Web Development,

Masai School ☑

Dec 2022 – Dec 2023

Bachelor of Engineering, Bapurao

Deshmukh College of Engineering ☑

Jul 2017 – Aug 2021

👛 Work Experience

NeuralHQ.ai, Software Engineer

Jan 2024 – Present

Bengaluru, Karnataka

• Responsibilities

- ▶ Collaborated with cross-functional teams to develop and deploy scalable backend systems using clean code, CI/CD pipelines, and Git workflows.
- ▶ Build and maintain robust server-side applications and APIs
- ▶ Implement security best practices, including JWT-based authentication and role-based access control

• Hasiru Rakshaka (Tree Monitoring System) ☑

- ▶ Designed & deployed the entire backend system using Node.js for BBMP's tree plantation monitoring initiative, tracking 200K+ saplings across Bengaluru.
- ▶ Developed scalable APIs for activity logging, health monitoring, and reporting dashboards.
- ▶ Ensured high availability and performance with optimised PostgreSQL schema and efficient query design.

• AI Sommelier Agent (Wine Discovery Assistant) ☑

- ▶ Built a conversational assistant that engages users to understand their wine preferences (varietal, taste, budget, food pairing, etc.) and recommends wines from inventory with purchase links.
- ▶ Designed and implemented backend dialogue flow, preference extraction, and inventory integration using Node.js, Express.js, and MongoDB.
- ▶ Delivered a smooth customer experience by integrating LLM APIs and ensuring fast, reliable responses.

• AI Agent "Sean" (Fintech Customer Support) ☑

- ▶ Implemented a microservices-based AI Agent automating credit card-related query resolution. The agent utilised complex SOPs and transactional data to resolve card-related queries (e.g., bill inquiries, payments, and card blocking) and escalated complex cases.
- ▶ Built authentication and identity management microservices with PostgreSQL schema design, JWT-based REST APIs, and RBAC.
- ▶ Reduced average query resolution time by ~60%

• Tunnel & Landmine Detection Backend System

- ▶ Defence system for detecting underground tunnels and landmines using drone/rover-collected GPR data analysed by an ML pipeline and visualised on a real-time mission dashboard.
- ▶ Architected and developed the FastAPI-based backend from scratch as the communication hub between frontend, ML services, and drone systems, designing API contracts and implementing real-time mission management, GPR detection data transfer and PostgreSQL integration.