

# MUHAMMED NIYAD

## FULL-STACK DEVELOPER | MERN STACK

**GitHub:** [github.com/Niyad-Labs](https://github.com/Niyad-Labs) | **Portfolio:** [niyad-labs.github.io/My-Portfolio](https://niyad-labs.github.io/My-Portfolio)

**Email:** [muhammedniyad720@gmail.com](mailto:muhammedniyad720@gmail.com) | **LinkedIn:** [linkedin.com/in/muhammed-niyad](https://linkedin.com/in/muhammed-niyad)

**Phone:** [8606079774](tel:8606079774) | **Wellfound:** [wellfound.com/u/muhammed-niyad](https://wellfound.com/u/muhammed-niyad)

## PROFESSIONAL SUMMARY

Full-Stack Developer specializing in the MERN stack with hands-on experience building scalable web applications, SaaS platforms, and real-time systems. Skilled in React.js, Node.js, Express.js, MongoDB, and PostgreSQL, with practical experience integrating Docker, Electron.js, Flutter, and Three.js into projects. Passionate about backend development, database systems, performance optimization, and creating efficient, user-focused software. Strong problem-solving ability with a growing interest in cloud and system architecture.

## TECHNICAL SKILLS

- **Programming:** JavaScript (ES6+), Python, Dart, Java, C, C++, PHP, Bash
- **Frontend:** React.js, Redux, HTML5, CSS3, Sass, Bootstrap, EJS Templating, Material UI Three.js
- **Backend:** Node.js, Express.js, RESTful APIs, MVC Architecture, JWT Authentication, Middleware
- **Databases:** MongoDB (Mongoose), PostgreSQL, MySQL, Relational Database Design
- **Mobile/Desktop:** Flutter, Electron.js, Android (Java)
- **Tools & DevOps:** Docker, Docker Compose, Git (Version Control), GitHub, VS Code, Postman, Figma, Nodemon, dotenv
- **Deployment & Cloud:** Render, Vercel, Environment configuration, Production builds

## PROJECTS EXPERIENCE

### PIXEL PACT: AI-POWERED DIGITAL ART WITH BLOCKCHAIN OWNERSHIP

**Tech Stack:** MERN Stack, Python, FastAPI, PyTorch, Flutter, Docker, WebSockets

**GitHub:** [github.com/Niyad-Labs/BCA-project](https://github.com/Niyad-Labs/BCA-project)

- Built a SaaS-based full-stack platform enabling users to generate, upload, and refine digital artwork using AI-assisted workflows, artist collaboration and responsive UI components developed with Material UI
- Integrated PyTorch-based image generation via FastAPI and developed RESTful APIs (Node.js, Express.js) with proper HTTP status codes and structured error handling to connect frontend, AI services, and database systems
- Designed a real-time collaborative workflow supporting concurrent user interactions, ensuring smooth communication between users and artists
- Modeled and optimized MongoDB schemas for efficient storage of digital assets and implemented JWT-based authentication for secure access control
- Containerized backend services using Docker & Docker Compose, and developed a cross-platform Flutter app, following modular MVC architecture for scalability and maintainability

## **SHARE WITH NODE: REAL-TIME LOCAL FILE SHARING & STREAMING PLATFORM**

**Tech Stack:** Electron.js, Node.js, Express.js, Vite

**GitHub:** [github.com/Niyad-Labs/Share-With-Node](https://github.com/Niyad-Labs/Share-With-Node)

- Engineered a cross-platform desktop application for high-speed local network file sharing, eliminating reliance on external internet services.
- Developed a secure QR-code-based device pairing system, facilitating instant synchronization between desktop and mobile devices.
- Implemented a real-time media streaming engine, reducing video load time by ~40% and enabling instant playback without full download.
- Architected secure access control protocols using dynamic URL tokens and password-based authentication to protect user data.
- Optimized backend session handling to support concurrent users within local network environments.

## **ACADEMIC HISTORY**

### **BACHELOR OF COMPUTER APPLICATIONS (BCA)**

Malabar College of Arts & Science College, University of Calicut | Graduated 2026

### **HIGHER SECONDARY – COMPUTER SCIENCE**

Palora Higher Secondary School, Ulliyeri | 2021-2023

## **CORE COMPETENCIES**

Backend Development (Node.js, Express.js) • RESTful API Design & HTTP Status Code Handling • Authentication & Authorization (JWT) • SaaS Application Development • MVC Architecture • Database Design (MongoDB, PostgreSQL) • System Design • Real-Time Communication (WebSockets) • Secure Application Development • Version Control (Git & GitHub) • Data Structures & Algorithms (Arrays, Linked Lists, Stacks, Queues, Trees - Fundamentals) • Error Handling & Debugging • Responsive UI Development • Performance Optimization • Docker & Containerization