

Nawab Khairzzaman Mohammad Kibria

Full Stack Developer | Blockchain Specialist

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Professional Summary

Innovative Full Stack Developer with 4+ years of experience building scalable web applications and blockchain solutions. I specialize in backend development, leveraging NestJS and Express frameworks, with prior experience in Laravel before 2022. I excel in modern TypeScript frameworks, microservice architectures, and smart contract development. I have a proven track record of leading development teams and driving impactful, user-centric solutions using cutting-edge technologies including AI/ML and blockchain to accelerate business growth.

Education

Bachelor of Science in Computer Science and Engineering
Begum Rokeya University, Rangpur

2020 – 2023

Awards & Achievements

Blockchain Olympiad Bangladesh 2022 - Edutech Category Award (Winner) for **dEDU: A Decentralized Education System**

Professional Experience

GcBuying, Senior Full-Stack Developer

Remote

Jun 2020 – Present

- **Built website and Android/iOS apps** from scratch; rebuilt mobile in React Native (2022)
- **Led migration** from Laravel monolith to NestJS microservices (2021) with Next.js & React
- **CI/CD & Kubernetes with Terraform** on AWS & GCP; deployment scripts; HashiCorp Vault for secrets
- Replaced third-party payments & crypto APIs with **in-house custodial wallet** (multi-chain, tokens); designed infra & security; **sole developer** for 100K+ users
- **Tech:** NestJS, MongoDB, MySQL, PostgreSQL, Redis, RabbitMQ, gRPC, React, Next.js, React Native, Expo

Gamespace Inc, Backend & Blockchain Developer

Thailand (Remote)

2021 – 2022

- worked on developing backend for a gamified crypto exchange platform with back-end team.
- built a trading engine & custodial wallet for the platform.

Multicone, Lead Backend Developer

Rangpur, Bangladesh

Jan 2021 – Present

- Lead a 5-member engineering team; manage and delegate tasks; ensure timely delivery
- Architect and implement scalable backend systems and data models; ensure performance and reliability

Key Projects

Gcbuying 🔗 🔗

2020 – Present

- **Architected & developed** a B2B2C platform to Trade Giftcard & Crypto with 100K+

active users

- **Microservices Architecture:** Built 12+ independent services using NestJS/TypeScript with MongoDB, Redis caching, RabbitMQ messaging, and BullMQ job processing
- **Cryptocurrency Trading System:** Implemented multi-currency wallet system (NGN, BTC, USDT, TRX, ETH, LTC, DOGE, XRP) with real-time price feeds via CoinGecko API and automatic crypto-to-NGN conversion using Bybit exchange
- **Payment Processing:** Integrated Vaultody webhooks for deposit detection, Red-biller payment gateway for bank deposits, and Block.io API for Bitcoin transactions with configurable confirmation requirements
- **Security & Authentication:** Developed JWT-based auth with 2FA, role-based access control, rate limiting, and comprehensive KYC verification system with AWS S3 document storage
- **Frontend Applications:** Developed React Native mobile app for iOS/Android, React.js for private admin dashboard, and Next.js for public-facing SEO-optimized web platform
- **Real-time Features:** Built WebSocket-based chat system with Socket.IO, real-time presence management, and queue-based email processing with Handlebars templates and SendGrid integration
- **Admin & Analytics:** Created comprehensive admin dashboard with transaction monitoring, user management, system health checks, and Bull Board integration for queue monitoring
- **Tech Stack:** NestJS, MongoDB, Redis, RabbitMQ, BullMQ, JWT/Passport.js, Socket.IO, Google Cloud Platform, Docker, GraphQL, AWS S3, CoinGecko/Bybit/Vaultody APIs, MySQL, React Native, React.js, Next.js

Escrow Trade Platform [🔗](#) [🔗](#)

2023 – 2023

- Built multi-blockchain P2P escrow trading platform supporting Bitcoin, Ethereum, Polygon, BSC, and Monero
- Implemented smart contract-based escrow system ensuring secure, trustless transactions
- Developed responsive web interface with real-time transaction monitoring and portfolio tracking
- **Tech Stack:** Solidity, ethers, React.js, Node.js, Express.js, MongoDB

AlleleGroupPlant NFT Marketplace [🔗](#) [🔗](#)

2022 – 2023

- Created innovative ERC998 composable NFT marketplace for genomic data trading
- Designed unique identity asset markers enabling fractional ownership of genetic research data
- Integrated IPFS for decentralized storage and implemented advanced search algorithms
- **Tech Stack:** Solidity, ERC998 Standard, React.js, IPFS, ethers, subgraph, Node.js, Express.js

KnightBridge Gamified Exchange

2021 – 2022

- Created gamified cryptocurrency exchange with interactive trading challenges and rewards system
- Implemented real-time trading engine with advanced charting and portfolio management tools
- Designed achievement system and leaderboards to enhance user engagement by 150%
- **Tech Stack:** React.js, Node.js, WebSocket, Redis, PostgreSQL, TradingView API

Technical Skills

Programming Languages: JavaScript, TypeScript, Solidity, Python, C++, PHP, Kotlin, Swift

Frontend Development: React.js, Next.js, React Native, Vue.js, Tailwind CSS, Material-UI, Three.js

Backend Development: Node.js, NestJS, Express.js, Laravel, RESTful APIs, GraphQL, WebSocket

Database & Storage: MongoDB, PostgreSQL, MySQL, Redis, IPFS, Amazon S3, SQLite

Blockchain & Web3: Solidity, Ethers, Smart Contracts, DeFi, NFTs, Layer 2 Solutions, Cryptography

DevOps & Cloud: Docker, Kubernetes, AWS, GCP, Azure, CI/CD, Jenkins, GitHub Actions, Microservices

AI/ML & Tools: TensorFlow, PyTorch, Git, Jest, Cypress, Jira, Notion, Figma