



NILOY RUDRA

Full Stack Developer

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ABOUT ME

Full Stack Developer with 7+ years of experience building scalable, cloud-native systems for global startups & enterprises. Specializes in Node.js (TypeScript), NestJS microservices, React, and AI systems, including LLM orchestration and NLP pipelines. Proven track record delivering high-performance, production-grade products across SaaS and HealthTech.

CORE EXPERTISE

- **Frontend:** JavaScript, React, React Native, React Query, Context API, Redux, Next.js, Tailwind CSS
- **Backend:** Node.js, TypeScript, NestJS (RxJS), GraphQL, REST APIs, PostgreSQL, SQL, Firebase
- **AI & Agents:** spaCy, Whisper, NLP pipelines, multi-step workflows, LLM integration, agent orchestration
- **Architecture:** Microservices, Serverless, Event-Driven Systems, modular service separation
- **DevOps:** Docker, Kubernetes, Kafka, RabbitMQ, AWS, Git, CI/CD
- **Security:** OAuth2, JWT, Secure API design, access control, edge-case failure testing
- **Testing & Evaluation:** Jest, Postman automation, execution review, Cypress, rubric-based validation
- **Integrations:** Stripe, Twilio, Supabase-compatible tools, Payment Gateways, live API environments
- **System & Tool:** Linux

CERTIFICATE

Oct 2020 | Udemy

React native - The Practical Guide

Aug 2019-Aug 2020 | Udemy

Learn JavaScript: Full-Stack from Scratch

July 2025 | IBM (Coursera)

IBM AI Engineering with Python, PyTorch & TensorFlow

May 2020-Jun 2020 | Udemy

Data Structures + Algorithms

EDUCATION

2012-2013

Masters of Business Studies, Accounting

National University of Bangladesh • Bangladesh

Result: 1st-class with Distinction.

Level in EQF: EQF level 7

LANGUAGE

English - Advanced

German- Basic

PROFESSIONAL EXPERIENCE

Founder & Full-Stack Developer

Mar 2025 – Present

Langphy — AI-Powered German Learning App

- Sole technical founder of an AI-powered German language learning app, architecting and shipping the full stack end-to-end
- Built a multi-step NLP pipeline (Audio → Whisper → spaCy → adaptive rubric-based feedback) achieving ~90% feedback consistency across evaluations
- Built the React Native app with Context API and React Query, delivering responsive Figma-accurate UI for iOS/Android, reducing API response times by 40% via Node.js microservices.
- Deployed infrastructure with Docker, Kubernetes, and Kafka; automated quality checks and Jest-based testing, improving pipeline accuracy by 35%

Freelance Senior Full-Stack Engineer

Jan 2018 - Present

Fiverr · Upwork | Remote (USA, Germany, UK, International)

- Built and deployed scalable backend systems using Node.js/TypeScript for startups and SMEs
- Improved REST API performance by 50% & refactored monoliths into modular microservices.
- Deployed cloud infrastructure on AWS with Docker; integrated Stripe, Twilio & WebSockets
- Managed multi-turn system interactions, session continuity, and agent-like execution flows
- Participated in design review meetings with UI/UX teams for international clients, converting Figma designs into production-ready React and React Native components.

Full-Stack Developer (Freelance)

May 2022 – Jul 2024

Irish Pure | Berlin, Germany

- Reduced load times by 30% and increased user engagement by 20%
- Improved backend security and optimized production performance
- Integrated a robust Cart System for upselling, increasing 25% up-selling.

Software Developer (Remote)

May 2022 – Jul 2024

Ahom Limited | Manchester, UK

- Built the company website in WordPress & a React Native app consuming the WP REST API
- Improved backend security and optimized performance, reducing load time by 30%
- Increased user engagement by 20% through UI improvements and optimisation

PROJECTS

Event Management System | Full-stack Developer

- Built a system with QR ticketing, registration, guest passes, and entry/exit tracking
- Integrated Stripe, Firebase, and Twilio for payments, real-time data, and communication
- Built an admin panel using React Admin with OAuth2 authentication

TOGS — Social Event Management Platform | Full-stack Developer

- Built a cross-platform React Native (TypeScript) app for event hosting, social feeds, and real-time notifications across iOS and Android
- Developed an interactive social feed with likes, comments, and media sharing; managed dynamic content state for real-time user engagement
- Integrated REST APIs for event check-ins, ratings, and network-based recommendations, handling complex multi-state UI flows

WeNeed - Meet-up App | Full-stack Developer

- Managed state with Context API and React Query for efficient caching and synchronization.
- Ensured GDPR-ready privacy and role-based access.
- Implemented video/chat consults (WebRTC), real-time messaging, and secure file sharing.