TOUKIR AHMED RONY

Full-Stack Software Engineer | TypeScript · React · Next.js · NestJS · PostgreSQL | AI Integration

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Eligible to work in the UK · Available at short notice

PROFESSIONAL PROFILE

Full-Stack Software Engineer with 5+ years building websites and web applications for real businesses, from first brief to live product. Building React and JavaScript front ends since 2021, first on Laravel back ends and now in TypeScript end to end: Next.js and React on the front end, NestJS and Node.js on the back end, PostgreSQL with Prisma, REST APIs and Redis/BullMQ queues. At SETS Tech I lead a team of 5 UK developers: I design the architecture, plan the work and build the core of each system. Delivered 50+ projects since 2020, 18 of them for UK businesses in law, care, property, recruitment, education, construction and hospitality, and built 6 open-source projects with public code and tests. MSc in Artificial Intelligence (Merit), University of Essex, now used in live products: AI chatbots, an AI voice agent and WhatsApp automation.

TECHNICAL SKILLS

- Top Skills: TypeScript, JavaScript, React, Next.js, NestJS, Node.js, PostgreSQL, REST APIs, multi-tenant SaaS
- Frontend: React, Next.js (App Router), JavaScript (ES6+), AJAX, Tailwind CSS, shadcn/ui, HTML5, CSS3, responsive design
- Backend: NestJS, Node.js, Prisma, PostgreSQL, pgvector, Redis/BullMQ, Zod, WebSockets, REST APIs, RBAC
- AI: OpenAI, Claude and Gemini APIs, RAG with pgvector, AI chatbots and agents, prompt-injection defence, WhatsApp automation
- DevOps & quality: Docker Compose, GitHub Actions CI, Linux VPS (nginx, PM2), pnpm/Turborepo, Git, Vitest, Supertest
- Also: Laravel, PHP, MySQL, team leadership, Agile delivery, client scoping, performance tuning

PROFESSIONAL EXPERIENCE

Full-Stack Software Engineer
SETS Tech - Greater London, UK (Remote) *Aug 2025 – Present*

- Lead the client and product projects I work on, with a team of 5 UK developers plus freelancers brought in for busy months. I design the architecture and data model, plan and assign the work, build the core features myself and guide the developers working with me.
- Joined when the company had a backlog of projects and no technical process. Set up how work is scoped, assigned, reviewed and signed off, and brought the existing projects up to a standard clients pay for. The team has since grown to 5 UK developers plus freelancers.
- Led SETS Tech's own SaaS products from spec to launch, both live since October 2026: StaffDock (staff document compliance: multi-tenant NestJS API, Next.js dashboards, staff upload portal; 20 UK companies onboarded in the first month) and RightUni (study-abroad platform with an encrypted document vault; 100+ students using it regularly from the first month, and 3 partner agencies).
- Rebuilt client platforms, including Stonebridge Legal, as TypeScript monorepos (Next.js, NestJS, PostgreSQL, Prisma, shared Zod schemas). Stonebridge now takes 30+ online bookings a month. Now leading the Community Careline rebuild on the same stack.
- Built SETS Tech's in-house CRM, which runs team delivery: assigning work, tracking progress and signing off each deliverable before release.
- Built AI features in live products: an OpenAI chatbot, an AI voice agent, WhatsApp automation and email-response flows.
- Improved average page-load times by 20–30% across several client sites through caching and query optimisation.

Full-Stack Developer (Self-Employed)
Team Cipher - Huddersfield, UK (Remote) *May 2025 – Jul 2025*

- Ran my own web development practice: delivered 4 client web applications in Next.js, Laravel and MySQL, including Mem Connects, a study-abroad agency system with admin, staff, student and university portals.
- Built authentication, role-based access control and database-driven features. Handled scoping, client communication, invoicing and delivery myself.
- Closed the practice in July 2025 to join SETS Tech.

Web Developer
Software Mela - Dhaka, Bangladesh *Jan 2021 – Nov 2023*

- Built and maintained business systems in Laravel, PHP and MySQL, including 10+ school management systems for schools and colleges (admissions, attendance and results; including Tangail Residential School & College, used for online classes after Covid), a full courier management system (Taratari Express) and pharmacy management systems.
- Built several hospital management systems, including Lab One Hospital's, in Laravel or with a Laravel back end and a React front end, depending on the client. Used React and JavaScript (with AJAX) on top of Laravel for other client projects in 2021–2022.
- Improved page-load times by about 15% through database and front-end optimisation.
- Did technical SEO and performance work that supported about 40% traffic growth alongside marketing campaigns.

Web Designer and Digital Marketing Executive
Dream Music Station - Bangladesh *Jan 2020 – Dec 2020*

- Managed website updates, content and online campaigns for a music business, and handled day-to-day web publishing and technical troubleshooting.

OPEN SOURCE

- **Slotwise:** Booking engine (NestJS, Next.js, PostgreSQL, Redis/BullMQ). A PostgreSQL exclusion constraint blocks double bookings: 100 parallel requests for one slot give exactly 1 booking. Handles UK clock changes correctly, and an outbox means no email is lost. 183 tests in CI. github.com/ToukirOfficial/slotwise
- **Jobsmith:** Job search workspace with an AI agent that runs as typed, validated steps and only prepares applications, never sends them. SSRF-safe job fetching and prompt-injection defence. 92 tests.
- **OpenLet:** Property and tenancy management: append-only rent ledger in integer pence, idempotent daily rent charges, strict tenant isolation. 115 tests.
- **DocRequest:** Secure client document portal with per-file AES-256-GCM encryption, virus scanning on a BullMQ queue and hashed, rotating client links. 79 tests.

KEY CLIENT PROJECTS

- **Stonebridge Legal Solutions:** Next.js and NestJS law firm platform with online consultation booking and an AI chatbot. 30+ online bookings a month, plus 50+ through WhatsApp.
- **Zerago OS (Jun – Oct 2026):** One Laravel platform running a UK cleaning company: website, CMS, CRM, cleaner app and customer portal, from enquiry to invoice and payment. 15–20 jobs a month, up from about 10.
- **Community Careline Services:** Care platform for confidential care-assessment requests and carer recruitment. Next.js and NestJS operations platform in progress.
- **Mem Connects:** Next.js and NestJS platform for a UK study-abroad consultancy: course matching, onboarding, document submission and application tracking.

PRODUCTS

- **StaffDock (SETS Tech):** Multi-tenant compliance SaaS for UK employers: right-to-work checks, staff documents, expiry reminders and an inspection-ready evidence pack. 20 UK companies onboarded in its first month. staffdock.co.uk
- **RightUni (SETS Tech):** Free study-abroad organiser: search about 30,000 universities, track applications and keep documents in an encrypted vault. 100+ students using it regularly from the first month, 3 partner agencies. rightuni.app
- **CVTrail (own product):** Free job tracker that keeps the exact CV and cover letter sent with each application.

EDUCATION

MSc in Artificial Intelligence (Merit)
University of Essex · Colchester, England *Jan 2024 – Jan 2025*

- Modules: Machine Learning; Neural Networks and Deep Learning; Information Retrieval; Intelligent Systems and Robotics; Professional Practice and Research Methodology; Group Project; Machine Learning for Finance.
- Dissertation (mark 74): AI-integrated Hospital Management System (Laravel), using AI for appointment scheduling and decision support.

BSc (Engg) in Computer Science and Engineering (CGPA 3.74/4.00)
Asian University of Bangladesh · Dhaka, Bangladesh *2016 – 2020*