

# Najish Mahmud

## Fullstack Developer

### CONTACT

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### SKILLS

**Languages:** TypeScript, JavaScript, Python, Go

**Frontend:** React, Next.js, Zustand, Redux Toolkit, TanStack Query/Table, Tailwind CSS, ShadCN UI, Framer Motion, Socket.io, Storybook

**Backend:** NestJS, Node.js, Express, FastAPI, Django, PayloadCMS, asyncio, GraphQL

**DB & Infra:** PostgreSQL, MongoDB, Redis, BullMQ, S3/Linode, WebRTC / Jitsi

**DevOps:** Docker, Nginx, CI/CD, Linux, Coolify

**Other:** TypeORM, Zod, React Hook Form, Web Components, OAuth

**AI / ML:** LLMs, RAG, Rasa NLU

**AI Tools:** Claude Code, opencode

**Delivery:** Requirements gathering, solution scoping, technical discovery

### EDUCATION

**University of Bedfordshire**  
MSc Artificial Intelligence  
Dissertation: AI Agent Orchestration  
Sep 2025 – Sep 2026

**Islamic Univ. of Technology**  
BBA Business & Tech. Mgmt  
Jan 2018 – May 2022

### RESEARCH

Mahmud, N. et al. (2024) ‘Survival Prediction of Septic Patients Using Boosting and Oversampling Techniques’, ICMC 2024. doi:10.1109/icmlc63072.2024.10935134  
Methods: literature review, data collection & cleaning, experimental design, data validation

## EXPERIENCE

**Malda Limited**, London, UK

Nov 2025 – May 2026

*Fullstack TypeScript Developer*

- Implemented Atto open banking integration end-to-end: reverse-engineered OAuth consent flow from incomplete API docs, built bank account linking modal and transaction sync pipeline for automated rent reconciliation.
- Delivered Finance page from scratch: rent charge management, transaction uploads, and reconciliation UI visualizing AI-generated payment-matching suggestions with confidence scores.
- Built full-stack features across a Next.js/NestJS property management platform: controllers, services, and APIs for properties, finance, and document modules.
- Revamped dynamic form builder to support 30+ AI-extracted house rental document types; built hierarchical property-unit selector for multi-unit management.

**Therap (BD) Ltd**, Dhaka, Bangladesh

Jun 2023 – Aug 2025

*Software Engineer*

- Led ground-up development of an internal React + TypeScript UI component library as first React hire: DatePicker, Data Table, Localization Context with Storybook docs and unit tests (Jest, React Testing Library); library powers the UI overhaul of electronic health records used across 26 US states.
- Developed QA Assistant notification system: real-time form rejection alerts surfaced via a floating Web Component embedding React, enabling reuse of the internal component library within legacy JSP pages; owned end to end.
- Built web components integrating legacy jQuery/JSP widgets with React, bridging old and new frontend architectures.
- Mentored new recruits on React/TypeScript patterns and component architecture.

**Kernel International Ltd.**, Dhaka, Bangladesh

Jan 2022 – Jul 2026

*Fullstack Developer (Freelance)*

- Built Jacks Burger (UK) admin panel with Next.js + PayloadCMS: customer management, coupons, table management, and branch-level inventory reporting.
- Configured Jitsi WebRTC video infrastructure for Medibee’s early platform, supporting live sessions for 20–30 concurrent users.
- Managed client relationships end-to-end via Fiverr: gathered requirements, scoped solutions, and iterated to delivery across multiple projects.
- Maintained Medibee and NoticeBee post-launch: CI/CD via Coolify, deployments, and feature updates.

**Mir Info Systems Limited**, Dhaka, Bangladesh

Mar 2022 – May 2023

*Software Engineer*

- Built near-realtime payment analytics dashboard using TanStack Query/Table with 5-min auto-fetch, live metrics, and filterable paginated tables.
- Built backend services with Node.js, FastAPI, and Django; deployed Rasa chatbot end-to-end including custom action server and containerization.

## PROJECTS

**orcchh:** Agentic inference routing across N configurable compute tiers (Python, PyTorch); from-scratch PPO policy with invalid-action masking, self-reporting device agents with calibration classifiers, OOD/entropy fallback, deployable as Docker/k8s services. Evaluated with real DistilBERT/BERT-large inference against 8 literature baselines. codeberg.org/njayman/orcchh

**nbkit:** Jupyter notebook (.ipynb) to Markdown/text toolkit, no kernel required: zero-dependency TypeScript core library, MCP server for AI agents, and a Next.js web app. nbkit.njayman.com · codeberg.org/njayman/nbkit

**Noticable:** My portfolio fork and rebuild of NoticeBee, Kernel International’s realtime notice platform (Socket.io, React) that I maintained; NoticeBee is adopted by 100+ govt. colleges under CEDP. Noticable adds an admin dashboard and kiosk display mode, with v2 adding offline/online status, multipart uploads, and layout management. codeberg.org/njayman/noticable

**Medible:** My portfolio fork and rebuild of Medibee, Kernel International’s medical student subscription platform (React/Vite/Express monorepo) that I maintained; Medibee has 1,000+ active subscribers. codeberg.org/njayman/medible

**proz:** Go CLI + TUI project launcher (Bubbletea, Cobra) with cross-platform CI/CD releases. github.com/njayman/proz

**Galaxy Impact:** Top-down bullet-heaven space shooter (C++, raylib, CMake); escalating enemy waves, skill-based leveling, shared-move-pool bosses, web build via Emscripten. github.com/njayman/galaxyimpact

**brain-md:** Agent Skill package teaching AI agents to use brain.md vaults via MCP (auth, search/read/write notes, multi-vault support); installable as a Claude Code plugin. github.com/njayman/brainmd-skills

**shoplisterr:** Mobile app (Expo/React Native) that scans receipts and price tags, using an LLM (Gemini/Claude/OpenAI/OpenRouter) to extract line items and compare prices against existing inventory; async extraction jobs with review-before-save, inventory search/edit, LLM-managed categories. codeberg.org/njayman/shoplisterr

**RAG system:** Retrieval-augmented generation pipeline (Python, LangChain); MSc coursework.

**Bank-marketing ML evaluation:** Cost-sensitive ML evaluation project; MSc coursework.