

# MD MAHMUDUL HASAN MIRAJ

Full-Stack Developer | AI Automation Engineer

📍 Busan, South Korea (UTC+9) ✉ mirajmdmahmudulhasan@gmail.com 🌐 mirajmahmudul.github.io 💡 Open to remote, full-time or contract

## C:\> SUMMARY

Full-Stack Developer with 2.5+ years shipping production web applications end-to-end — React/TypeScript frontends, REST API backends, relational databases, and Docker-based deployment — plus deep experience building AI automation pipelines on top of that stack. Co-founder of AgentDevX, an MCP-native agent infrastructure platform built and shipped solo from architecture through production billing. Collaborates closely with co-founders, clients, and cross-functional stakeholders across remote, fast-moving teams; comfortable owning a feature from database schema to deployed UI.

## C:\> EXPERIENCE

**Founder & Full-Stack Developer — AgentDevX** 2025 — Present

- Architected and shipped a full-stack agent-infrastructure platform end-to-end: PostgreSQL (Supabase) schema design, Hono/Bun REST API backend, Ed25519 cryptographic identity layer, AES-256-GCM encrypted credential vault, and OPA WASM policy engine.
- Built and containerized backend services with Docker; deployed to Render/Railway with tiered subscription billing (\$8-\$29/mo) via Lemon Squeezy.
- Designed MCP-native API endpoints with dry-run mode, per-agent memory, and capability tagging, collaborating directly with a co-founder on product scope and go-to-market positioning.

STACK: TypeScript · Bun · Hono · Supabase (PostgreSQL) · Docker · Python

**AI Automation & Web Developer — Freelance (UK / US / Australia, Remote)** Jan 2024 — Present

- Built a 16-node n8n B2B lead-generation workflow for agency founders and SaaS decision-makers, using Supabase/PostgreSQL for deduplication and logging.
- Developed a full-stack voice AI receptionist (OpenAI Speech API + JavaScript front end) for a live client-facing portfolio site, handling recruiter queries and contact capture end-to-end.
- Delivered cinematic, full-stack landing pages (AURUM, POPI Watch, OBSCURA) using React-adjacent tooling, Three.js, and GSAP ScrollTrigger, working directly with clients on requirements and revisions.
- Automated a video production pipeline (Python → Remotion → ElevenLabs) for recurring YouTube content delivery.

**Web Developer & Site Administrator — Rubel Chemical, Dhaka** Feb 2024 — Dec 2024

- Designed and developed the company's front-end architecture, ensuring a responsive, fully optimized UI across devices.
- Owned daily site maintenance, technical checks, and bug troubleshooting in coordination with internal stakeholders, maintaining zero downtime.
- Implemented performance improvements that reduced page load time and improved overall user experience.

**Website Developer — AeroSoft Shoes, Dhaka** Feb 2023 — Jan 2024

- Built and maintained full-stack front-end and backend architecture for the company's e-commerce website.
- Ensured optimal performance, seamless UX, and cross-browser compatibility while delivering rolling feature requests from stakeholders.

## C:\> SELECTED PROJECTS

**B2B Lead Generation Automation** — n8n · Supabase · PostgreSQL · OpenAI — 16-node production workflow with deduplication, automated outreach, and real-time logging.

**Voice AI Receptionist Agent** — OpenAI API · Web Speech API · JavaScript — handles natural-language recruiter queries and forwards contact details via email.

**Online Hospital** — web-based hospital management interface for patient registration, appointment scheduling, and medical record access.

**AI Video Production Pipeline** — Python · Remotion · ElevenLabs — programmatic pipeline producing broadcast-quality trading-strategy videos with zero manual editing.

## C:\> SKILLS

**Frontend:** TypeScript, JavaScript (ES6+), React.js, Three.js, GSAP, HTML5/CSS3, Responsive Design

**Backend:** Node.js, Bun, Hono, REST API Design, PHP, Java, Python

**Database:** PostgreSQL, MySQL, Supabase, Vector DB

**DevOps & Tools:** Docker, Git, GitHub, Render/Railway Deployment, SOP Documentation, QA

**AI & Automation:** n8n, Workflow Automation, AI Agents, Webhooks, OpenAI API, RAG Pipelines, Prompt Engineering, MCP

## C:\> EDUCATION

**B.S., Electronics and AI Convergence**

Busan University of Foreign Studies (BUFS) · Sep 2025 — Present

**IELTS Intensive English Training**

Meiji Education, Dhaka · Jul 2024 — Sep 2024

IELTS Academic Band 6.5 (British Council/IDP, Jan 2025)

## C:\> LANGUAGES

English — Fluent (IELTS 6.5) · Bengali — Native · Hindi — Fluent · Arabic — Basic