

# MD FUAD HAIDER DIPU

AI-First Full-Stack Developer

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## PROFESSIONAL SUMMARY

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Senior software engineer with 14 years shipping production systems — 50+ delivered since 2012 for companies in Bangladesh, the UK, Canada, and India. I build AI-first: provider-agnostic LLM integration, RAG pipelines, and MCP servers alongside Next.js, TypeScript, Node, and Python. Fourteen years across the arc — PHP, CodeIgniter, and Magento through the agency years, Laravel at scale, and modern JavaScript today. Currently at Bashundhara Group, one of Bangladesh's largest conglomerates, where I own both the engineering and the search performance of what I build.

*Available now for remote roles with German and EU teams. Relocating to Germany in 2027 — Opportunity Card application submitted July 2026.*

## TECHNICAL SKILLS

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**Languages:** TypeScript, JavaScript (ES6+), PHP, Python, SQL, HTML5, CSS3

**AI & ML:** LLM integration (OpenAI, Gemini, Anthropic), RAG pipelines, Model Context Protocol (MCP), prompt engineering, scikit-learn, Pandas

**Frontend:** Next.js 15, React, Redux, Tailwind CSS, shadcn/ui, HeroUI, Bootstrap, Sass

**Backend:** Node.js, Express, NestJS, GraphQL, REST API design, Laravel, CodeIgniter, WordPress plugin development

**Databases:** MongoDB, Mongoose, PostgreSQL, MySQL, Prisma, Firebase

**Cloud & DevOps:** AWS, Microsoft Azure, Google Cloud Platform, Docker, CI/CD, Git, GitHub Enterprise, Linux, Vercel, Netlify

**Architecture:** Headless CMS, microservices, MVC, OOP, system architecture, database design, Core Web Vitals, technical SEO

**Practice:** Agile, Scrum, SDLC, code review, mentoring, requirements analysis

## PROFESSIONAL EXPERIENCE

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**Senior Software Engineer** | Bashundhara Group, Dhaka, Bangladesh

*Apr 2025 – Present | Internal grade: Assistant Manager*

- Built a distributable WordPress plugin embedding an AI assistant on any site, on a provider-agnostic LLM layer supporting OpenAI, Gemini, Anthropic and custom endpoints. Each vendor exposes a different request shape and streaming format; the plugin normalises them behind one interface, so switching providers does not touch application code. Live in production.
- Built an MCP (Model Context Protocol) server in TypeScript exposing GitHub issue data to AI agents, with a deliberately narrow tool surface. Containerised as a multi-stage Cloud Run image and deployed via MCPize.
- Designed RAG knowledge datasets powering enterprise support chatbots across multiple product lines and nationwide district-level coverage.
- Architected a decoupled CMS — WordPress backend serving a Next.js 15 / TypeScript frontend over REST — so editorial teams keep familiar authoring tools while the frontend gains modern rendering and Core Web Vitals performance.
- Maintain 20+ high-traffic production sites across multiple business units. Lead code reviews, define branching strategy on GitHub Enterprise, and mentor junior developers.
- Own both the engineering and the organic search performance of what I build: technical SEO, structured data, and Core Web Vitals across the group's digital portfolio.

**Senior Software Engineer** | Bashundhara Group, Dhaka, Bangladesh

*Nov 2022 – Mar 2025 | Internal grade: Senior Executive*

- Delivered the Bashundhara Shuvo Shangho community welfare platform as a full MERN application, owning both backend architecture and user experience.
- Modernised legacy systems inside live production: rebuilt a trading-company platform in Laravel and enhanced a professional association's CodeIgniter application.
- Delivered design-to-deployment corporate platforms for shipping and logistics, apparel sourcing, aviation services, and executive portfolio clients.
- Owned full project lifecycles — requirements, UI/UX, development, deployment on AWS and Azure, and post-launch performance optimisation.

## **Full Stack Developer** | AHZ Associates Bangladesh, Dhaka, Bangladesh

*Jul 2022 – Oct 2022*

- Built in-house CRM systems and the public platform for a UK-based education consultancy (ahzassociates.co.uk), taking the site from design to production in Laravel.
- Delivered the student application pipeline end to end — enquiry, document upload, status tracking, and counsellor dashboards — replacing spreadsheet-based tracking.

## **Senior Web Application Developer** | AleshaMart.com, Dhaka, Bangladesh

*Feb 2021 – Jun 2022*

- Built the core Laravel-based Service Management System for one of Bangladesh's largest e-commerce platforms, and managed the administrative panel.
- Delivered four Laravel platforms from scratch: an elder-care residence, a logistics services provider, an organic food store, and a distance-learning centre.
- Led feature development from analysis through release, resolved production issues, and trained team members on new functionality.

## **Web Application Developer (Contract)** | Krishian, Dhaka, Bangladesh

*Oct 2020 – Jan 2021*

- Built krishian.com, a hydroponics venture platform connecting growers to market, across the full lifecycle from requirements through deployment.
- Champion, ideaTHON — organised by the iDEA Project, Bangladesh Computer Council (ICT Division).

## **Web Application Developer (Contract)** | Krishi Hut, Dhaka, Bangladesh

*Jun 2020 – Sep 2020*

- Built krishihut.com, a multivendor agricultural e-commerce marketplace on Laravel with Webkul — vendor onboarding, catalogue management, and split-order fulfilment. Approved by the ICT Division of Bangladesh.

## **Web Application Developer** | Ending Scene Inc., Dhaka, Bangladesh

*Dec 2019 – May 2020*

- Built custom WordPress themes and plugins from scratch in raw PHP and JavaScript, minimising third-party plugin dependency. Integrated Google and Facebook APIs.
- Delivered four platforms in six months under Agile, including a cooperative society portal for icddr, an international health research institute.
- Built dhakacast.com, a diabetes care platform — Top 10 at ideaTHON (iDEA Project, Bangladesh Computer Council), and separately selected for the GP Accelerator, Grameenphone's startup programme.

## **Web Developer** | WebAble Digital, Dhaka, Bangladesh

*Feb 2019 – Nov 2019*

- Developed web applications on WordPress and Magento with Bootstrap, HTML5, SASS, JavaScript, jQuery, MySQL and PHP for international clients in Canada.
- Handled full-cycle delivery across front-end and back-end, including performance optimisation and third-party API integration.

## **Senior Software Engineer** | Design Matra, Dhaka, Bangladesh

*Jan 2014 – Jan 2019*

- Led systems architecture and development across Magento, WordPress and CodeIgniter with HTML5, CSS3, JavaScript, MySQL and PHP.
- Built and maintained ferriwala.com, a Magento cosmetics e-commerce platform, over three years — the longest-running system I have owned.
- Delivered bespoke client builds using Agile, plus Android application development and 3D visualisation projects.

## **Software Engineer** | Workspace Infotech Limited, Dhaka, Bangladesh

*Oct 2012 – Mar 2013*

- Backend development on timedoctor.com, a time-tracking product used internationally — feature implementation, bug resolution, and interface work in CodeIgniter, PHP, jQuery and AJAX.

## **SELECTED PROJECTS**

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### **AI Document Chatbot — WordPress Plugin**

*PHP, WordPress Plugin API, OpenAI, Gemini, Anthropic*

Distributable plugin on a provider-agnostic LLM layer. Vendor request shapes and streaming formats normalised behind one interface, so switching providers is configuration rather than code. Live in production at brmcil.com.

### **MCP GitHub Issue Tracker**

*TypeScript, Node.js, MCP SDK, Docker*

Model Context Protocol server exposing GitHub issue data to AI agents. Deliberately narrow tool surface — an agent with unrestricted repository access is a liability. Multi-stage Cloud Run container, deployed via MCPize.

### **Diabetes Risk Prediction — ML Pipeline**

*Python, scikit-learn, Pandas, Gradio*

End-to-end pipeline from data cleaning to a deployed interface on Hugging Face Spaces. Most notebooks stop at an accuracy score; this ships as something a non-technical person can use.

### **Creative Shikkha Poribar — Learning Management Platform**

*Next.js 15, TypeScript, Express, MongoDB, Zod*

Independent client work. Shipped as three deployables, then rebuilt the client-facing layers as one Next.js application after a mid-project requirements change — carrying the API forward unchanged because its contracts were stable.

## **EDUCATION**

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### **Bachelor of Science (B.Sc.), Computer Science and Engineering**

American International University-Bangladesh (AIUB) | 2008 – 2012 | Recognised in anabin (German degree equivalence database)

### **Higher Secondary Certificate (HSC), Science**

B.A.F. Shaheen College, Kurmitola, Dhaka | 2002 – 2004

## **CERTIFICATIONS**

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- Data Structures and Algorithms — Phitron (2026)
- IELTS — Overall Band 6.5 — IDP Education (2025, valid to 2027)
- AZ-400: Designing and Implementing Microsoft DevOps Solutions — Microsoft training course (2025)
- AZ-204: Developing Solutions for Microsoft Azure — Microsoft training course (2024)
- Cisco Networking Academy — CCNA, Introduction to Cybersecurity (2020)

## **AWARDS**

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- Champion — ideaTHON, iDEA Project, Bangladesh Computer Council (ICT Division). Project: Krishian, hydroponics marketplace.
- Top 10 — ideaTHON, iDEA Project, Bangladesh Computer Council (ICT Division). Project: DhakaCast, diabetes care platform, separately selected for the GP Accelerator (Grameenphone).

## **LANGUAGES**

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**Bengali:** Native

**English:** Professional working proficiency — IELTS 6.5 (CEFR B2)

**German:** Elementary (A1), working toward B1