Omor Al Tanim

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Portfolio

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Summary

Software Engineer with 2 years of experience building and shipping production web systems end-to-end. Works primarily across Frappe/ERPNext, FastAPI, and Django, with hands-on delivery in ASP.NET, React, and Next.js. Delivered 8+ projects covering REST API design, relational data modelling, background job processing, third-party integrations, and LLM multi-agent orchestration, owning features from requirements through deployment and post-release support.

Technical Skills

Languages: Python, C#, JavaScript, SQL, Java, C/C++, HTML, CSS
Backend: Frappe, ERPNext, FastAPI, Django, Django REST Framework, ASP.NET, Node.js, Express.js, Celery, REST API Design
Frontend: React, Next.js, Vue.js, Strapi, Tailwind CSS
Databases: PostgreSQL, MySQL, SQL Server, MongoDB, Query Optimization
AI & Automation: Semantic Kernel, GPT, Gemini, N8N
DevOps/Cloud: AWS, GCP, DigitalOcean, Docker, CI/CD Pipelines, Nginx, Linux Server Deployment, Virtual Machines (VM)
Tools: Git, GitHub, Postman, Figma, Cursor, Claude Code
Soft Skills: Problem Solving, Self-learning, Team Collaboration, Agile Development, Adaptability

Experience

- **Software Engineer** *Jan 2025 - Present*
  Full-time Position *Wafi Solutions*
  - Built and delivered ERP solutions on Frappe and ERPNext for multiple local and international clients, implementing custom document controllers, scheduled jobs, permission logic, and reporting across HR, payroll, attendance, CRM, accounting, production, stock, and logistics workflows.
  - Engineered a multi-agent AI customer support platform using Semantic Kernel, GPT, and N8N on an ASP.NET and Express.js backend, handling prompt routing, tool invocation, and conversation state for live ecommerce traffic.
  - Designed and consumed REST APIs to integrate backend systems with Next.js, Strapi, and React client applications, keeping product and lead data synchronized across services.
  - Owned full delivery cycles across ecommerce, real estate, and SaaS clients, covering requirements gathering, custom development, third-party integrations, deployment to Linux servers, and post-deployment support.
- **Software Engineer** *Sep 2024 - Dec 2024*
  Full-time Position *CareerHikeBD*
  - Developed a tuition media platform connecting students with tutors, building the Django REST Framework backend with secure authentication, tutor listing and search endpoints, booking flows, and media upload handling, consumed by a responsive React.js frontend.
  - Integrated real-time class scheduling and messaging, and optimized endpoint performance and UI/UX ahead of an expected increase in traffic.
- **Trainee Software Engineer** *June 2024 - Aug 2024*
  Internship Position *Coresoft*
  - Built a custom ERP platform from the ground up with Django, PostgreSQL, and Bootstrap, onboarding 70,000+ retail stores through store-management and product-catalog modules, with data-processing workflows tuned for fast query performance at that scale.
  - Designed an inventory management system for product exchange between partner organizations and a route-assignment system allocating non-overlapping territories to the field sales team, with Leaflet.js for real-time rep tracking.

Professional Projects

- **Nifty HRMS | Cloud-Based HRMS | Frappe, ERPNext, Frappe HR**
  End-to-end HR platform covering the full employee lifecycle from hire to payroll.
  - Built the full HR platform from scratch, covering employee lifecycle, leave, geolocation attendance, payroll with tax slabs and automated salary slips, multi-level expense approvals, performance appraisals, recruitment pipeline, and role-based dashboards.
  - Technology Used: Frappe, ERPNext, Frappe HR. Link
- **Haramain Store | Multi-Channel Ecommerce Automation | Frappe, ERPNext**
  Popular multi-channel ecommerce platform fully migrated to ERPNext to automate end-to-end back-office operations.
  - Automated Sales, Purchase, Stock, CRM, Telemarketing, HR, Accounting, and Creative operations, including KPI dashboards, a multi-supplier purchase system, duplicate-order detection, courier API sync, stock management, biometric attendance, and payroll.
  - Technology Used: Frappe, ERPNext. Link
- **Mim & Manami | Merchandising, Costing & Procurement for Garments ERP | Frappe, ERPNext**
  Merchandising module built inside the Manufacturing app to manage costing, budgeting, and procurement for a garments manufacturer.
  - Optimized the end-to-end merchandising workflow from file-wise pre-costing and costing summaries through budgeting and booking, and built a multi-level procurement approval chain with role-based validation, sequential sign-off, and automated notifications to all concerned stakeholders.
  - Technology Used: Frappe, ERPNext. Link
- **Wafilife | Multi-Agent AI Customer Support | Semantic Kernel, ASP.NET, N8N, React**
  AI customer-support layer that resolves ecommerce queries end-to-end through multi-agent orchestration.
  - Built an AI support bot with Gemini image-based scraping and GPT multi-agent orchestration via Semantic Kernel and N8N, plus a full-stack React and Express.js chat interface for real-time customer-agent communication.
  - Technology Used: Semantic Kernel, ASP.NET, N8N, React, Express.js. Link
- **Ntouch.ai | Public Website For Hotel Management System | Next.js, Strapi, ERPNext, PostgreSQL**
  Content-driven public site for a hotel management SaaS with ERPNext integration for lead management.
  - Set up ERPNext synchronized with a Next.js public website to automate lead capture and the lead-to-deal workflow, with Strapi CMS and PostgreSQL for content management.
  - Technology Used: Next.js, Strapi, PostgreSQL, ERPNext. Link
- **Regent CRM | Real Estate CRM & ERP Implementation | Frappe CRM, ERPNext**
  Built a complete CRM and migrated company-wide operations from spreadsheets to ERPNext for a real estate firm.
  - Developed a full CRM system with Frappe CRM tailored to real estate operations and led the migration of company operations from spreadsheets to ERPNext, automating key processes across departments.
  - Technology Used: Frappe CRM, ERPNext. Link
- **Wafi Office | Company ERP System | Frappe, ERPNext**
  Internal ERP solution managing company-wide operations and HR processes.
  - Built an attendance management module backed by a mobile app API, covering attendance tracking, break management, backlog handling, daily work-hour calculation, and irregularity reason logging.
  - Technology Used: Frappe, ERPNext. Link
- **Aillio | Ecommerce Platform with Headless CMS | Strapi, React, ERPNext**
  Strapi-based headless CMS with a React frontend and ERPNext integration for product synchronization.
  - Built the Strapi CMS and React frontend with the Taiwan frontend team, implementing real-time product synchronization between Strapi and ERPNext for data consistency.
  - Technology Used: Strapi, React, ERPNext. Link
- **Quicket | Event Ticketing Site | Django, jQuery, Webpack, Celery, Nginx**
  Event ticketing platform with merchandise add-ons and QR-based ticket fulfillment.

- Designed distinct stock and product models for event add-ons and embedded QR code generation in tickets, improving purchase experience and merchandise collection efficiency.
- Technology Used: Django, jQuery, Webpack, Celery, Nginx. Link

- **Lifespring Foundation | Deployment & Server Infrastructure | DigitalOcean, Linux**
  Foundation website deployed and maintained on self-managed cloud infrastructure.
  - Handled DevOps and deployment on a self-provisioned DigitalOcean Linux server, covering server setup, application deployment, and ongoing maintenance of the live site.
  - Technology Used: DigitalOcean, Linux. Link

Personal Projects

- **Pulzer | Distribution ERP System | Django, Celery, PostgreSQL, ReportLab**
  Comprehensive distribution ERP for retail and house operations, covering order management, inventory, routing, and invoicing.
  - Built a full order management system with complete lifecycle handling, multi-warehouse SKU and stock tracking, territory and route management with route-outlet mapping, PDF invoicing with embedded QR codes, Celery background processing for notifications, and REST APIs for external integrations.
  - Technology Used: Django, Celery, ReportLab, Webpack, PostgreSQL. GitHub

Education

- **Bachelor of Science in Computer Science and Engineering** *2019-2023*
  Ahsanullah University of Science & Technology

Publications

- **A Multi-modal Deep Learning Approach for Predicting Dhaka Stock Exchange** *2023*
  IEEE 13th Annual Computing and Communication Workshop and Conference (CCWC 2023)
  - Link

- **A Hybrid Method based on Machine Learning to Predict the Stock Prices in Bangladesh** *2022*
  IEEE 13th International Conference on Information, Electronics and Communication (IEMCON 2022)
  - Link