Mahadi Hassan

Senior Software Engineer · Backend (Python & Django)

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Senior software engineer with 7+ years building backend systems in Python and Django, from enterprise ERP in Bangladesh to IoT-driven construction software and a global energy platform in Tokyo. I like owning systems end to end: design, implementation, delivery, and leading small teams through all of it.

EXPERIENCE

Kraken Tech

Tokyo, Japan

Senior Software Engineer — Feb 2026 – Present

Software Engineer — Sep 2024 – Jan 2026

Customer migration, on a platform that runs 70M+ accounts worldwide.

- Build and ship backend services and business-as-usual features in Python and Django.
- Introduced the **Diátaxis** framework to developer documentation, giving every page a clear purpose and a consistent structure that improved reader satisfaction and readership.
- Built an **OpenAPI-powered docsite** that made the schema the single source of truth for the API reference, removing **~90% of duplicated, hand-written doc code** and making the codebase easier to maintain.

Python · Django · OpenAPI · PostgreSQL · CircleCI · Datadog · Sentry

Resonest Corp.

Remote (Bangladesh) → Tokyo, Japan

Backend Engineer — May 2022 – Aug 2024

Machine guidance (MGS) and roller compactor (RCS) systems that show construction machines and terrain in real-time 3D.

- Built a **multi-tenant, multilingual cloud platform** with role-based access control, one-click database backups and central authentication, the first market-ready cloud ecosystem for the MGS product line.
- Built the **first market-ready excavator runtime UI** (Electron, React, Three.js): real-time 2D/3D animation of the bucket and arm from IoT data, helping operators work accurately on site.
- Built a one-click installer that securely downloads and installs terminal applications, improving app distribution productivity by **~70%**.
- Led a team of three engineers and shipped the platform's first cloud release through to a stable product.

Python · Django REST Framework · PostgreSQL · Celery · WebSockets · Electron · React · Three.js · OpenLayers · GCP · Jenkins

Divine IT Limited

Dhaka, Bangladesh

Senior Software Engineer — Sep 2021 – Apr 2022

Software Engineer — Sep 2019 – Aug 2021

PrismERP, one of Bangladesh's largest ERP systems.

- Led a team of four building radio-equipment simulation software from scratch for a government client, across the full lifecycle from requirements to production.
- Led a four-person team owning a PrismERP product used by **100+ business customers**: goals, improvements and maintenance.
- Built a **central authentication system** giving users single sign-on across multiple ERP instances, a requirement for large international clients.
- Built a master–slave data flow service that made dynamic dealer-management reports **50% faster**.
- Owned core ERP modules (supply chain, asset management, HR, finance), built a YAML-driven dynamic dashboard system and an enterprise library management system, and mentored junior engineers.

Python · Django · FastAPI · SQLAlchemy · MySQL · PostgreSQL · Celery · Redis · React · Docker · GitLab CI/CD

SIDE PROJECT

Kizuna Global

Apr 2026 – Present

Head of Digital Transformation & Systems (pro bono)

Designing and building a modular, multi-branch ERP for a Bangladesh–Japan education and career consultancy, in Django and PostgreSQL.

- Candidate journey tracking, employee and B2B management, company billing and payroll.
- A Japanese learning platform for students with attendance, payments and online exams.
- Full double-entry accounting across branches.

SKILLS

Languages	Python, JavaScript
Backend	Django, Django REST Framework, FastAPI, Celery, SQLAlchemy, REST, gRPC, GraphQL, WebSockets, OAuth2 / OIDC
Data & messaging	PostgreSQL, MySQL, MongoDB, Redis, RabbitMQ
Frontend & desktop	React, Redux, Electron, Three.js, OpenLayers
Cloud & DevOps	GCP, AWS EC2, Docker, Nginx, Linux, CircleCI, Jenkins, GitLab CI/CD
Quality & observability	pytest, TDD, Datadog, Sentry
Practices	System design, Event-driven & microservice architecture, Agile / Scrum, Diátaxis docs, Claude Code

EDUCATION

BSc in Computer Science & Engineering

IUBAT (International University of Business Agriculture and Technology), Dhaka, Bangladesh

Jan 2016 – Dec 2019 · CGPA 3.94 / 4.00

LANGUAGES

English	Business fluent
Japanese	Basic
Bengali	Native