



# DAOUDI ABDELLAH

Civil Engineer · Software Architect · DevOps

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📍 Laayoune, Morocco

🚗 Permis B + Véhicule · 26 ans

## PROFILE

Civil engineer (EHTP, 2024) with hands-on experience leading complex construction projects — from 22-km regional roads to 27 luxurious buildings. Having witnessed first-hand the inefficiencies of the construction industry, I transitioned into software development to build game-changing tools that bridge the gap between the field and modern technology. I now combine deep domain knowledge with solid full-stack and DevOps skills to engineer products that solve real problems in civil engineering.

## TECHNICAL SKILLS

<b>Backend</b>	Python (FastAPI, Django, SQLAlchemy) · PostgreSQL · REST APIs · Software Architecture
<b>Frontend</b>	React · Next.js · TypeScript · Responsive UI
<b>DevOps</b>	Docker · Docker Compose · Hetzner Cloud · Cloudflare DNS & CDN · SSL · Linux Server Admin
<b>Languages</b>	Arabic (native) · English (fluent) · French (advanced)

## PROFESSIONAL EXPERIENCE

**Independent / Freelance** | Remote 2025 – Present

### Software Architect & Full-Stack Developer

- ▶ Designed and deployed full-stack applications in Python (FastAPI/Django) with React/Next.js frontends targeting civil engineering workflows (scheduling, quantity take-off, cost control).
- ▶ Architected scalable back-ends following clean-architecture principles: domain separation, dependency injection, async I/O, and PostgreSQL with migration tooling.
- ▶ Self-hosted production infrastructure on Hetzner Cloud: multi-container stacks with Docker Compose, reverse-proxy routing, SSL termination, and domain management via Cloudflare.
- ▶ Automated deployment pipelines and monitoring to ensure high availability for demanding field users.

→ Detailed descriptions of all software products on page 2.

**SOGORET** | Khnifra Juin 2025 – Nov 2025

### Chef de Projet

Project: Construction d'une route régionale — Tronçon de 22 km

- ▶ Piloted the full start-up and global monitoring of a 22-km road construction project.
- ▶ Supervised 11 hydraulic structures (5 culverts and 6 box culverts, including a 3.5 m box culvert).
- ▶ Controlled costs, managed material procurement, and coordinated with the design office and quality-control laboratory.

**Atlas Capital** | Rabat Oct 2024 – Mai 2025

### Ingénieur OPC — CDI

Project: Construction de 27 immeubles Haut-Standing

- ▶ Coordinated multiple trade contractors (structural works, tiling, VRD, joinery) while reporting project progress.

- ▶ Developed and monitored detailed schedules; organised and led weekly site meetings to resolve inter-contractor conflicts.
- ▶ Accelerated collaboration between contractors, design office, architecture studio, and inspection bureau.

SGTM | Rabat

Fév 2024 – Juil 2024

### Stagiaire PFE

Project: Grand Stade de Rabat Moulay Abdellah — Intégration du Processus BIM

- ▶ Built the 3D Revit structural model of the Grand Stade de Rabat Moulay Abdellah from scratch.
- ▶ Created and ran clash-detection workflows; generated structured clash reports resulting in significantly improved contractor coordination.
- ▶ Automated quantity take-offs from the 3D model, used by SGTM for professional attachments and cost reporting.

## EDUCATION

### Diplôme d'Ingénieur en Génie Civil

2020 – 2024

École Hassania des Travaux Publics (EHTP), Casablanca

🏆 Ranked 24th nationally in the Concours National Commun (CNC).

### Classes Préparatoires — Physique & Sciences de l'Ingénieur

2018 – 2020

Lycée Préparatoire, Guelmim

## SOFTWARE PORTFOLIO — DAUDI ABDELLAH

Construction-domain SaaS products built from the ground up

Every tool below was born from personal frustration with industry-standard software that is expensive, overly complex, or simply not adapted to the realities of North African and international construction projects. Each product is independently designed, coded, and deployed.

## PLANITOR — PLANNING & MONITORING PLATFORM

### Planitor — The modern, accurate alternative to Primavera P6

- ▶ Full project planning and monitoring SaaS tool designed to replace Primavera P6 with a far simpler, more intuitive interface accessible to field engineers without P6 training.
- ▶ Critical-path scheduling engine with Gantt visualisation, baseline vs. actual comparison, and real-time progress tracking — all in a web browser with no heavy client installation.
- ▶ Task dependency management, milestone tracking, and resource leveling built for the pace of real construction sites.
- ▶ Significantly more accurate earned-value calculations and delay analysis than the standard Primavera workflow, reducing human error in schedule reporting.
- ▶ Multi-project dashboard enabling programme-level oversight: progress roll-up, SPI/CPI indicators, and exportable PDF/Excel progress reports.
- ▶ Role-based access control: project owners, engineers, and client viewers each see a tailored interface.

Tech: Python (FastAPI) · PostgreSQL · React · Next.js · Docker · Cloudflare

## CHANTIER MANAGER — CONSTRUCTION ERP

### Chantier Manager — An ERP purpose-built for construction site logic

- ▶ End-to-end construction management platform covering the full operational cycle of a building or infrastructure project: labour, equipment, materials, subcontractors, and finances.
- ▶ Daily site report module: digital journal of workforce attendance, equipment usage, weather conditions, and executed quantities — replacing paper site registers.

- ▶ Procurement and inventory engine: material requests, delivery tracking, stock levels per zone/lot, and supplier payment follow-up.
- ▶ Subcontractor management: contract scopes, progress measurements (attachements), invoicing validation, and retention tracking.
- ▶ Cost control dashboard: budget vs. actual per lot, cost-at-completion forecasting, and variance alerts — giving project managers real-time financial visibility.
- ▶ Document management: plan revisions, technical submittals, inspection reports, and punch-list items organised by discipline and location.

**Tech:** Python (Django) · PostgreSQL · React · REST API · Docker · Hetzner Cloud

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## ROAD DESIGNER — AUTOMATED ROAD ENGINEERING TOOL

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### Road Designer — *From topography coordinates to BET-grade deliverables in minutes*

- ▶ Takes raw topographic survey data (X, Y, Z coordinates) as the sole input and automatically generates the complete set of deliverables required by Bureaux d'Études Techniques (BET) for road projects.
- ▶ Automated horizontal alignment (tracé en plan): best-fit axis computation with tangent, curve, and transition-curve elements, exported as DWG/DXF for direct use in AutoCAD.
- ▶ Longitudinal profile (profil en long): automatic terrain profile extraction, design grade optimisation (minimising cut/fill volumes), and export in DWG/DXF and print-ready PDF.
- ▶ Cross-sections (profils en travers): generated at user-defined chainages with cut/fill areas, slopes, and road platform geometry — batch-exported as DWG/DXF and PDF.
- ▶ Full Excel output with all relevant engineering values: chainages, TA/TC points, radii, super-elevations, cut/fill areas, and complete quantity take-offs (earthworks, sub-base, base course, wearing course).
- ▶ Eliminates the need for manual Covadis/AutoCAD scripting for routine road design — a task that previously took days now takes minutes, with BET-standard formatting out of the box.

**Tech:** Python · NumPy · SciPy · ezdxf (DWG/DXF) · ReportLab (PDF) · OpenPyXL · FastAPI · React

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*All products are self-hosted on Hetzner Cloud with Docker Compose, SSL termination via Caddy, and domain routing via Cloudflare. Infrastructure is managed entirely by the author.*