

# Dinar Sharafutdinov

BIM Developer | Revit API · C# · .NET | Building Automation Tools for AEC

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## SUMMARY

BIM Developer with 2+ years in Revit family development, BIM coordination, and plugin development (C#/.NET, Revit API). Built DSTools - a Revit plugin platform for MEP family validation with cloud library and web portal. buildingSMART certified, English B2. Open to relocation to Europe.

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## EXPERIENCE

**R1** Nov 2025 - Present

### BIM Coordinator

BIM coordination and MEP family development across multiple projects.

- ~100 parametric Revit families - radiators, valves, equipment with lookup tables and shared parameters
- Built a family validation plugin (C#, Revit API) with Excel reporting - approved for company-wide rollout, paused due to restructuring
- Navisworks/IFC exports for clash detection and cross-discipline coordination
- BIM management on projects: model structure, standards compliance, engineer support
- BEP development and maintenance

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## MARKS GROUP

Feb 2024 - Sep 2025

### Automation Design Engineer

Engineering documentation for Building Automation & Control Systems (BMS) on metro infrastructure - new stations and reconstruction. Full project cycle: schematic design, detailed design, construction documentation.

- Revit lead for a 5-person team - configured views, templates, annotation standards, wrote internal workflow guides
- Co-defined department's BIM processes with team lead: task assignment formats, model structure, documentation standards
- Cross-discipline coordination with HVAC, Electrical, Plumbing, Fire Protection and Low-Voltage teams
- Trained colleagues on Revit workflows and plugin usage
- Studied pyRevit for internal process automation
- Vendor equipment data analysis, technical specifications

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## PROJECTS

### DSTools - Revit Plugin Platform

C#, .NET 4.8, Revit API, WPF, Next.js, Supabase

Revit plugin platform for MEP family validation and library management. Validates families against 50+ configurable rules (parameters, connectors, naming, geometry). Cloud-based family library with dockable Revit panel, web portal with user accounts and admin panel. Supports Revit 2021-2026.

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## EDUCATION

### Ufa State Petroleum Technological University

2019 - 2023

Bachelor's Degree - Automation Engineer

GPA: 4.23 / 5.0

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## CERTIFICATIONS

**Foundational C# with Microsoft** - freeCodeCamp (2026)

**buildingSMART Professional Certification - Entry Level** - buildingSMART International (2026)

**EF SET Certificate - B2 Upper Intermediate** - EF Education First (2026)

**BIM Manager: Administration and Collaboration** - Vysotskiy Consulting (2025)

**Quick Start in Revit** - Vysotskiy Consulting (2024)

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## SKILLS

**BIM & CAD:** Revit (parametric families, coordination), Revit API (C# plugins), Navisworks (clash detection), Dynamo, AutoCAD

**Programming:** C# (.NET, WPF, LINQ), Python (FastAPI, aiogram), TypeScript (Next.js, React), SQL (PostgreSQL)

**Software Engineering:** Clean Architecture, SOLID, Design Patterns (Factory, Observer, Strategy)

**Infrastructure:** Git, Docker, PostgreSQL, Linux, Vercel, VPS

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## LANGUAGES

Russian (Native) · English (B2 - Upper-Intermediate, EF SET Certified)