EDUARDO OSTEICOECHEA

Senior BIM Software Developer | Revit & AutoCAD APIs | C# / .NET | Autodesk Platform Services

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PROFESSIONAL SUMMARY

Architect (Cum Laude) and BIM software developer with 4+ years building, maintaining and debugging C#/.NET add-ins and automation tools for Revit and AutoCAD, grounded in hands-on production work as a Revit BIM modeler. I build desktop plugins (WPF, Windows Forms), cloud automations on Autodesk Platform Services and Autodesk Construction Cloud that extract model data into web dashboards, ASP.NET Core APIs on AWS cloud architectures, and Python/Dynamo scripts that remove repetitive work from design teams. In my current role at Voyansy – Hexagon I also build AI rendering pipelines driven by the Revit API and automated AI workflows for agentic development. I work independently with limited supervision, report progress clearly in client check-ins, and document every tool so teams can use and maintain it. Fluent English, native Spanish.

CORE SKILLS

- **Autodesk APIs:** Revit API, AutoCAD API, Autodesk Platform Services (APS) Design Automation, Autodesk Construction Cloud (ACC) data extraction, Dynamo (custom nodes, Python scripts), parametric Revit families
- **Microsoft stack:** C#, .NET Framework 4.8, .NET 8/9, ASP.NET Core minimal APIs, WPF, Windows Forms, ADO.NET, Visual Studio, SQL Server, Inno Setup installers
- **AWS cloud architecture:** EC2, S3, CloudFront, Route 53, DynamoDB, Lambda, SQS, ECR; Linux servers, systemd, Docker, Nginx, TLS
- **Scripting & automation:** Python (data workflows, computational geometry), Dynamo-Python, PowerShell (basic task automation), GitHub Actions CI/CD
- **Web:** REST APIs (ASP.NET Core, Go), JWT authentication, TypeScript, JavaScript, React, HTML/CSS, MySQL, MongoDB
- **AI:** LLM integration (DeepSeek, Kimi), Stability AI image generation, agentic workflow orchestration
- **Practices:** Troubleshooting and extending existing add-ins, code review, technical documentation, UI/UX design

PROFESSIONAL EXPERIENCE

BIM Full Stack Developer (.NET & AI) **06/2025 – Present**

Voyansy – Hexagon | Remote

- Designed and developed complex Revit model-validation tools with the Revit API inside a large existing C#/.NET add-in, writing efficient C# algorithms for element queries and geometry checks on large models.
- Troubleshot, debugged and extended existing add-in features; coordinated with the team to plan and support new functionality.
- Built Autodesk APS Design Automation and ACC processes to extract, manage and report data from model sets into web dashboards, and to run automated analysis on models.
- Developed AI rendering workflows on top of the Revit API (C#) that capture model views and context and generate rendered options for rapid architectural proposal generation.
- Wrote Python geometry scripts for architectural programming and geometric operations on architectural plans.
- Designed and built automated AI workflows for agentic software development: coder/reviewer agent pipelines, allowlisted typed tools, and CI/CD gates that test, build and deploy only the parts of a project that changed.
- Designed and shipped full-stack web platforms (UI/UX, REST APIs, authentication, CI/CD deployment) for internal tools and dashboards.

BIM Full Stack Developer (.NET & AI) **03/2024 – 04/2025**

Avant Leap | Remote

- Designed, developed and maintained Revit add-ins, Dynamo scripts and standalone Windows tools (.dll and .exe) with WPF and Windows Forms, following scalable, maintainable architecture.
- Integrated AI services into Revit and Windows workflows to automate repetitive tasks and improve user productivity.
- Packaged and deployed tools with Inno Setup; used SQL Server and AWS for data storage and cloud services.

Full Stack Web Developer & UI/UX Designer (Freelance) **10/2023 – 03/2024**

Client projects | Remote

- Designed, built, deployed and maintained client websites (scalaa.com, theinspiratagroup.com, thedalessiogroup.com) with HTML, CSS, JavaScript, PHP and MySQL, focused on performance and accessibility.

.NET Developer for Revit & AutoCAD API **03/2023 – 09/2023**

BIMIQs Miami | Remote

- Planned, designed and developed custom plugins and automation scripts for Revit and AutoCAD in C#/.NET to streamline architecture and engineering workflows.
- Built WPF user interfaces and ADO.NET/MySQL data integrations.
- Kept tools compatible, performant and maintainable across multiple Autodesk platforms and versions.

BIM Modeler & Documenter (Revit) **04/2022 – 09/2023**

BIMIQs Miami & VDC Works Miami | Remote

- Built detailed building models and parametric Revit families for architectural and MEP workflows.
- Produced construction documentation for electrical rooms and equipment kits in Revit 2022 to project standards.
- Automated repetitive modeling tasks with C# and Dynamo-Python, which led to my move into BIM software development.

SELECTED PROJECTS

DeepDeepBim — Revit add-in distribution platform on AWS (personal project)

- GitHub Actions builds the .NET 8 Revit add-in and syncs its DLLs and manifests to Amazon S3.
- ASP.NET Core (.NET 9) update API on EC2 validates a client key and streams the latest add-in files from S3 as a zip to the add-in's built-in updater.
- ASP.NET Core authentication API with DynamoDB (email secondary index), BCrypt and JWT, self-contained Linux publish, systemd service and Let's Encrypt TLS on EC2.
- Static web frontend on S3 + CloudFront with automated cache invalidation on every deploy.

eduardoos.com — full-stack platform (personal project)

- Go REST API with a public, documented API catalog, cookie and API-key authentication, MongoDB, TypeScript frontend, Nginx on Linux, and path-scoped GitHub Actions CI/CD.
- Earlier iterations: containerized .NET API on EC2 with images in Amazon ECR, deployed through GitHub Actions.

EDUCATION

Advanced BIM Modeling Course — BIMMASTER.org 12/2023
Full Stack Web Development Course — Udemy 12/2022
Bachelor of Architecture, Cum Laude — Universidad de Los Andes 12/2017
Master in BIM — Aitec 12/2011

ADDITIONAL

- **Languages:** English (fluent), Spanish (native)
- **YouTube:** Technical content on BIM development: youtube.com/@EduardoOsteicoechea
- **Portfolio:** github.com/EduardoOsteicoechea