ALAN RYNNE VIDAL - SOFTWARE ENGINEER

Alan Rynne Vidal

Email
alan@rynne.es
Phone
+34 610 536 232
Address
Bou de Sant Pere 14, 4
08003, Barcelona (Spain)

I speak:
English, Spanish

I write code in:
C#, JS/TS, Python,
PowerQuery M

I have experience with:
Rhino, Grasshopper, Revit,
Dynamo, PowerBI, IFC,
Vue.JS, GraphQL

My latest coding side-project:
alanrynne/ifc-developer-tools
*W*riting parsers, a language
server and a VSCode plugin for
IFC data

I love:
My dog Brunette
Baking brownies
Anything from JetBrains
GitKraken

LinkedIn
linkedin.com/in/alanrynnevidal
GitHub
github.com/alanrynne

As a seasoned software engineer, I have successfully delivered numerous projects and driven innovation in the AEC industry. I'm passionate about solving industry problems where geometry meets programming, and creating tools that enable collaboration through better data processes.

I enjoy enabling others to do great work, as much as I enjoy getting my hands dirty and solving problems myself; and I am deeply committed to fostering and supporting open-source communities and initiatives, going from code contributions to public lessons and presentations.

Experience

AEC Software Engineer, Speckle — Oct/2020 - Present

As an early employee at Speckle Systems, I have played a pivotal role in shaping technical decisions and driving product development in a fast-paced environment. Working as part of the Connectors team, the goal is to find ways to communicate data seamlessly across software solutions, bridging 3D modelling paradigms.

Key Responsibilities:

- Lead development of Grasshopper, PowerBI, and Dynamo connectors, as well as 3D geometry conversions across different domains.
- Review team members' pull requests to prevent bottlenecks and ensure code quality, as well as supporting and training other team members.
- Create and maintain CI/CD pipelines with complex build requirements.
- Conduct public speaking engagements at conferences and in-person events. Plan and execute workshops demonstrating product capabilities.
- Support the community on forums by providing solutions and troubleshooting.
- Maintain multiple open source projects within the company.

Key Achievements:

- Learned a new language (PowerQuery M) and developed a PowerBI connector, bringing in over 2,000 MAUs, with +20% month over month growth.
- Became a go-to person for troubleshooting and problem-solving, earning the respect of team members.
- Initiated and implemented the first phase of the Speckle Academia Program, providing free server hosting and support to dozens of university courses worldwide.
- Led the refactoring of our C# codebase to use Dependency Injection, significantly increasing maintainability and developer quality of life.
- Implemented a GitOps strategy, streamlining our processes; thereby reducing developer overhead and improving visibility of work in progress.

Computational Designer (R&D), Apogea — Mar/2019 - Sept/2020

Key Responsibilities:
- Developed custom Rhino/Grasshopper libraries and scripts for internal use, written in C#.
- Tackled complex modelling and automation tasks using Grasshopper and Revit.
- Contributed to multiple EU H2020 program projects, focusing on concept software development and documentation.
- Ensure accuracy of documentation and results, as well as the robustness of any proposed solution.

Key Achievements:
- Played a pivotal role in the success of some EU H2020 projects the company participated in, successfully completing every project milestone.
- Enhanced team capabilities in complex modelling and automation, providing robust solutions for challenging yet repetitive tasks.
- Delivered an innovative point cloud processing solution for one of our clients that resulted in a reduction of 90% from the original estimation.
- Created a Point Cloud to BIM ad-hoc modelling solution that allowed us to model 12km of scanned tunnels in 5 days (a 0.5cm accuracy), with a team of 2 people.

Design Engineer, Bellapart — Dec/2018 - Feb/2019

As a Design Engineer, I streamlined modelling tasks and resolved interoperability issues between SolidWorks and the structural analysis suite by coding plugins in C# and no-code solutions.

Teaching Experience

Digital Fabrication Teaching Assistant, MPDA (UPC) — 2018-2023
Introduction to Python Associate Teacher, MPDA (UPC) — 2019-2023
Collaborative Workflows in Architecture, Associate Teacher, IAAC — Courses of 2020/21 and 2021/22

Public Speaking Events

BILT Valencia 2022
AEC+Tech 2021 and 2022
AECHackathon Zurich 2024
AECTech Barcelona 2024

Education

Master's Degree in Parametric Design in Architecture, UPC (Spain), 2018
Building Engineering - Universidad Europea de Madrid (Spain) - 2011