

Paul-Andrei Burghelea

Software Engineer

London, UK | info@paburghelea.com | [linkedin.com/in/paburghelea](https://www.linkedin.com/in/paburghelea)

SUMMARY

Versatile professional with rare dual expertise in architecture and software engineering. Skilled in web development, data analysis, digital twins, architectural computation, and design management. Applies diverse perspectives to deliver innovative and efficient solutions

PROFESSIONAL EXPERIENCE

Design Systems Analyst · [Foster+Partners @Applied R+D, London UK](#) Present · 2yrs 10mos

- Developed full stack Next JS RAG and GAN applications, with relevant Figma design systems, distributing the applications office wide to 2000 users.
- I developed independent C++ libraries and extended the functionality of Unreal Engine 4/5. Worked with the UE5 Pixel Streaming package and Web RTC 5.
- Offered critical long-term R&D services for the design studios by creating workflows, implementing interoperability and geometric solutions, using C# .NET, RevitAPI, GhAPI and RH7API

Software Developer · [Freelance](#) June 2021 · 2yrs

- Rapidly delivered high-quality full stack CRUD applications using Electron, ReactJs, and MySQL, Docker.
- Spearheaded quick data collection and cleaning procedures, managing an average of 150,000 entries per project using Selenium, Pandas, and Python.
- Created geometry production pipelines using Grasshopper and Rhinoceros, cutting the revision total time by 80%

Architectural Assistant · [Helix Architecture](#) July 2019 · 1yr

- Managed a diverse range of redline agreements for lease legal documentation, listed building planning applications and tender packs
- Managed and improved the company's technology infrastructure, database, website, Unreal Engine 4 interactive models, while creating professional documentation and SOPs

PUBLICATIONS

Design Computation I/O 2021 — *Peer Reviewed Paper*

Interdisciplinary papers on architecture, data analytics and psychology

EDUCATION & LICENCES

ARB Chartered Architect *from* RIBA

Azure Fundamentals AZ900 *from* Microsoft Azure

Fundamentals of Accelerated Computing with CUDA C/C++ *from* NVIDIA Academy

Google Project Management  Google Career Certificates

MBCS *from* The Chartered Institute for IT

Google Data Analytics *from* Google Career Certificates

MArch Architecture *from* University College London *with* Distinction

BA Hons Architecture *from* University of Greenwich *with* First-class

Artistic Technologist Certificate *from* Romanian Ministry of Education

ADDITIONAL INFORMATION

Software: Revit, Rhinoceros, SketchUp, Azure, Figma, AutoCAD, UnrealEngine, V-Ray, Visual Studio, AdobeCS, Grasshopper
Programming & libraries: ReactJs, Next 14, Electron, Rhino Common, ThreeJs, GrasshopperAPI, Drizzle, PostgreSQL, TailwindCSS, TypeScript, Python, C#, C++, SQL