Marco Juliani				
<u>portfolio</u>	<u>gmail</u>	github	<u>twitter</u>	<u>linkedin</u>

Growth-minded learner interested in data-driven approaches to problem solving.
5 years software development experience. 5 years working in architecture project delivery + CAD + geometric modeling.

Domains + technologies of interest: solvers, optimization, data visualization, CRDTs, full-stack development, embeddings, llm agents, search algorithms, geospatial, space-planning.

Work & Education

10/2022 - current	NY	Senior Software Engineer	<u>Outer Labs</u>
04/2021 - 10/2022	London	Software Developer	<u>KOPE</u>
02/2020 - 04/2021	London	Computational Design Specialist	<u>CallisonRTKL</u>
09/2019 - 01/2020	London	Facade Consultant	Front Inc
09/2018 - 05/2019	London	MSc Architectural Computation	<u>UCL Bartlett</u>
11/2017 - 08/2018	Boston	Job Captain	<u>Gensler</u>
02/2014 - 11/2017	SF	Junior Designer	Woods Bagot
08/2008 - 05/2013	Tucson	Bachelor's of Architecture	University of Arizona

Skills

Frontend	Javascript, Typescript, React, HTML, CSS, MUI, Tailwind
Rendering	Canvas API, Three.js, R3F, Pixi.js, Canvas-Sketch
Maps + Geospatial	Mapbox, Google Maps Platform, PostGIS
Backend + Scripting	Node.js, Express.js, Nest.js, Python, Flask, Go, C#
Database + ORM + Object Storage	Postgres, Firebase, Firestore, GCS, MySQL, GraphQ, TypeORM, Drizzle, Yjs, Liveblocks
DevOps + Infrastructure	Gitlab, Azure DevOps, Github, GCP, AWS, Docker
Product Lifecycle	Agile, TDDs, Docusaurus, Slack, GSuite, Linear, Notion
Data	Data Models, Mermaid, Ingestion Pipelines, DuckDB
LLMs & ML	RAG, Function-Calling, Haystack, LLama-Index, Pytorch, Numpy
Algorithms	GAs, L-Systems, Kohonen Nets, Neural Nets, Octrees
Computational Design	Rhinoceros, Grasshopper, Revit, Dynamo, Unity

Involvement

08/2024	<u>Competition</u>	Untabbed: <u>Gemini API Developer Competition</u>
04/2021	Publication	Rumoer 76: voxel-based building + apartment generator mentioned in <i>Generative Design With Hypar</i> article (pg. 43).
05/2020	iOS game	Grid-locked: foray into game development during lockdown
04/2020	<u>Talk</u>	Data Management & Display: <u>Elefront</u> and <u>Human UI</u>
01/2020	Plugin	PlanBee for Grasshopper: cell-based spatial analysis plugin.
08/2019	<u>Tutoring</u>	Bartlett: Introduction to Programming Workshop (1)