POLINA STEPANOVA
realpolya.github.io/portfolio/

Polina is a full-stack software engineer and an architectural designer specializing in geospatial systems, algorithmic problem-solving, and computational design. Strong background in architectural systems with a Master of Architecture from Columbia University.
Polina lives in New York City.

PROFESSIONAL EXPERIENCE

mapStep *(2025 – currently)*
- Founder & Software Engineer
- Building a construction and architecture software
- Developing a full-stack geospatial platform (Django + PostGIS + React)
- Engineering solutions to automate zoning analysis
- Creating custom PDF parser Python package to redline architectural drawings
- Deployed at mapstep.io

Project Euler repository *(2024 - currently)*
- Solved 80+ algorithmic and mathematical programming problems from projecteuler.net
- Solutions can be found here.

Portfolio Applications *(2022 - currently)*
- Web portfolio: realpolya.github.io/portfolio/
- "Homi" (React + Tailwind CSS + Python/Django/SQL)
- "Battleship" (HTML/CSS/vanilla JS)

EDUCATION

Columbia University *(2021 – 2023)*
- Master of Architecture
- Advanced Standing
- Software engineering and computational design coursework

University of Southern California *(2015 – 2020)*
- B.S. in Architecture
- B.A. in Psychology
- Cum Laude Honors

CS CERTIFICATIONS

Software Engineering Bootcamp *(2024)*
- General Assembly
- Full-stack development

CS50 *(2024)*
- Harvard University

TECHNICAL SKILLS

software engineering
- full-stack development
- Python
- JavaScript, TypeScript
- C
- **front end**
- React + Vite framework
- HTML / CSS / vanilla JS
- Figma UX/UI
- Tailwind CSS
- Netlify deployment
- mapbox, Google Maps APIs
- **back end**
- Restful APIs
- MongoDB, Express, Node.js
- Django framework
- SQL (PostgreSQL, SQLite)
- PostGIS, GeoDjango
- AWS Infrastructure
- Railway, Heroku
- authentication
- algorithmic modeling
- data visualization
- git

computational design
- Rhino + Grasshopper

CONTACTS

realpolya.com
(213)-359-4990
realpolya@gmail.com
Linked-in: realpolya

OTHER EXPERIENCE

Edelweiss London *(August 2023 – currently)*
- Project Manager & Designer at Aman New York
- Managing construction, design, and property of one of the private residences
- Member of the Board of Managers at Aman New York as of summer 2025

Youtube Channel: Real Polya *(2021 - currently)*
- Creator of a channel about self-improvement
- Scripting, filming content, editing via Adobe Premiere Pro

Leslie Gill Architect *(March 2024 – March 2025)*
- Architectural Designer
- Leading and designing a landmark residential project in Brooklyn Heights

Vima Design *(October 2023 – January 2025)*
- Architectural Designer
- Designing residential projects in Los Angeles area

Gensler *(June 2022 – August 2022)*
- Research Fellow
- Researched the future of the architecture of the healthcare industry and provided innovative data-driven design solutions

Next Generation Builders *(October 2020 – April 2021)*
- Lead Architectural Designer
- Led over thirty residential and commercial projects (primarily Accessory Dwelling Units), created architectural designs, and worked on construction documents

ACCOLADES

to review the full list of Polina's awards, publications, and other achievements, please visit the dedicated webpage.

SKILLS

architectural design
- 3D-modeling
- Rhinoceros 3D
- Adobe Ps, Ai, Id, Pr
- AutoCAD, Revit
- Maya
- rendering (Enscape)
- interior design
- project management
- sustainability expertise
- hand-drawing / sketching

project management
- organization
- schedules & coordination
- budgeting

miscellaneous
- team work
- graphic design
- video editing
- content creation

LANGUAGES

- fluent English
- fluent Russian
- intermediate Spanish

LICENSES

LEED AP BD+C *(2023)*
- Sustainable architecture & construction

WELL AP *(2023)*
- Human-oriented architecture & design