

POLINA STEPANOVA  
[realpolya.github.io/portfolio/](https://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. She has a strong background in architecture and programming 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](https://mapstep.io)

### *Project Euler repository (2024 - currently)*

- Solved 80+ algorithmic and mathematical programming problems from [projecteuler.net](https://projecteuler.net)
- Solutions can be found [here](#).

### *Portfolio Applications (2022 - currently)*

- Web portfolio: [realpolya.github.io/portfolio/](https://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](https://realpolya.com)

(213)-359-4990

[realpolya@gmail.com](mailto:realpolya@gmail.com)

*Linked-in:* [realpolya](https://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