

# Irina Hallinan

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**Portfolio:** <https://irina694.github.io/portfolio/>

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## Education

Master of Engineering, Electrical Engineering and Computer Sciences 05/2023

Focus: Visual Computing & Computer Graphics

*University of California, Berkeley*

Bachelor of Science, Computer Science 05/2012

Focus: Software engineering focus

*Rice University*

## Relevant Coursework

Currently enrolled in: Machine Learning, Computer Vision and Computational Photography

Completed as an undergraduate: Computer Graphics, Software Engineering Methodology, Applied Algorithms and Data Structures, Computer Systems, Advanced Computer Game Creation, Python

## Skills

Python, JavaScript, PHP, git, AWS, Full-Stack Web Applications, Mockups, UX/UI, Adobe Creative Cloud

## Experience

Software Engineer, USRA (Mountain View, CA) 01/2015 - 08/2022

- Worked closely with program managers & scientists to build software tools.
- Mentored 5 students throughout technical internships.
- Led the design and implementation of multiple automation projects, e.g.
  - PI proposal submission process and monthly progress reports (sole engineer).
- Led the design, frontend implementation, and deployment of multiple USRA and NASA websites, e.g.
  - [Quantum](#) platform, released in 3 months (2 person engineering team).
  - [Academic Mission Services](#), released in 5 months (sole engineer).
  - [International Space Station Aerosol Particle DB](#) (sole engineer).
  - Insight platform for the Extravehicular Activity Office (4 person engineering team).

Software Developer, nousDecor (San Mateo, CA) 04/2014 - 10/2014

- Launched a web platform in 4 months for an e-commerce startup (3 person engineering team).

IT Developer / Software Engineer I & II, HP (Palo Alto, CA) 06/2012 - 04/2014

- Collaborated closely with engineers and program managers to build & support user interface of an enterprise IT tool, used to order services from HP Private Cloud (8 person engineering team).

## Publications

[1] [Demonstration of the International Space Station Particle Database Website](#), N. Tuya, W. Li, L. M. Calle, M. E. Meyer, M. Sorek-Hamer, **I. Hallinan**, 51st International Conference on Environmental Systems, 2022

[2] [Tech to the Future: Problems with Balance, Troubles with Therapy](#), D. Berger, M. Jones, M. Pyle and **I. Patrikeeva**, IEEE Potentials, vol. 31, no. 1, pp. 34-41, 2012

[3] [A Comparative Study Of Magnetic Fields In The Solar Photosphere And Chromosphere At Equatorial And Polar Latitudes](#), G. J. D. Petrie and **I. Patrikeeva**, The Astrophysical Journal, 699:871, 2009