

Irina Hallinan

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Professional Summary

Seasoned software engineer with leadership skills and computer science background, experienced in space and academic orgs, looking to lead a technical product team.

Professional Experience

NASA Ames Research Center (USRA), Software Engineer 01/2015 – 10/2022

- Mentored 5 students through technical research internships, such as streamlining business processes and analyzing data for UAV industry workforce.
- Enabled efficient and secure contractual reporting via automation, achieving full transition under a year, with 200+ active users from developers to directors.
- Designed, developed and deployed a public-facing scientific website quantifying air quality on the International Space Station, used by researchers and educators.
 - Led a pilot to incorporate website into a high school chemistry curriculum.
- Devised and created 3 educational web platforms for quantum scientists and students, including secure video lessons, database, search engine, responsive UI.
 - Saved scientists hundreds of hours by automating monthly newsletters.
- Designed the frontend of 2 public-facing academic websites and implemented modern features with a responsive look-and-feel, which grew the number of intern applicants from below 20 to over 100 in less than 6 months.
- Grew the number of active users on a web platform to hundreds across 3 NASA centers in the first 9 months by designing and developing frontend and APIs to search and analyze engineering data such as mission safety and spacewalks.

Tools: Trello, Office Suite, Adobe Creative Cloud, git, APIs, Docker, Jupyter, AWS

Programming Languages: Python + libraries (i.e., NumPy, PyTorch, FastAI), JavaScript + frameworks (i.e., Node.js, Express.js), PHP + Laravel, C#, R + Shiny, HTML, CSS, MySQL

noudDecor (now DesignerInc), Software Developer 04/2014 – 10/2014

- Implemented frontend of a B2C e-commerce website from scratch, going from a closed beta to public launch in 4 months, attracting over 300 users in the first few weeks after launch.

Programming Languages & Tools: Ember.js, jQuery, HTML, CSS, Trello

Hewlett-Packard, IT Developer/Software Engineer I & II 06/2012 – 04/2014

- Developed, updated, and supported the frontend of IT private cloud, used by IT org, streamlining manual processes of ordering and building cloud servers.

Programming Languages & Tools: Ext JS, jQuery, HTML, CSS

Education

- University of California Berkeley, MEng, EECS Expected 05/2023
 - Focus: Visual Computing and Computer Graphics
 - Capstone Project: Assistive Technology for Cursor Control (advisor: Prof. Barsky)
 - Leader of the Human-Computer Interaction Affinity Group
- Rice University, BS, Computer Science 05/2012
 - Focus: Software Engineering