

# Ian Callahan

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**SUMMARY** I use technical, analytical and interpersonal skills to solve complex problems for a wide range of clients. As a full-stack developer, my creativity and user-centered approach to design yield web applications, touchscreen interactives and multimedia installations that are effective, robust and sustainable.

**SKILLS** **Code:** PHP, Laravel, Javascript, Vue.js, Python, Flask, Django, REST APIs, HTML, CSS, SASS, Tailwind  
**DevOps:** Amazon Web Services (AWS), Vagrant, Varnish Cache, Docker, Laravel Forge, Digital Ocean, Elastic Cloud  
**VCS:** Git, GitHub  
**Databases:** SQL, MySQL, Redis  
**OS:** MacOS, Windows 10, Linux  
**Soft:** UX Engineering, Project Management, Adobe Creative Suite, Graphic Design

## **WORK EXPERIENCE** *Technical Solutions Architect | Senior Architect* Harvard Art Museums, Harvard University, 2019-present

### *Responsibilities*

- Consult with staff from across the museum to understand business requirements and development technical solutions
- Design, build and deploy web applications that improve workflows and serve museum audiences
- Analyze and improve infrastructure for cost reduction and performance gains

### *Accomplishments*

- Collaborated with curatorial staff and museum database administrator to deliver a workflow for publishing decades of catalog text with complex formatting to our API and website
- Selected to serve as a Digital Accessibility Liason, a University-designated position responsible for implementing Harvard's Digital Accessibility Policy
- Migrated from an expensive, overprovisioned PaaS to Digital Ocean App Platform, saving ~\$1k/mo in hosting costs and allowing for greater scaling flexibility
- Replaced an on-demand EC2 instance backing our API with Elastic Cloud, saving money and improving stability

## *Full Stack Developer and Technologist | Technology Support Specialist* Harvard Art Museums, Harvard University, 2013-2018

### *Responsibilities*

- Maintenance and new feature development for API-driven public website
- Configure systems and customize hardware for gallery installation
- Present trends and developments in technology to non-technical audiences
- Consult with curators and conservators on the care and exhibition of time-based, new media, and software-based art objects

### *Accomplishments*

- Designed, programmed, and implemented custom digital signage CMS and hardware solution
- Developed HAM's first digital object conditioning and preservation strategy
- Lead procurement and implementation process for six-figure exhibition AV commissioning
- Assisted in satisfying NEA grant funding requirements by building a custom web-application featuring 3D renderings for in-gallery use

## **WORK EXPERIENCE** *(continued)*

*Designer and Developer* | **Director of Communications and Marketing**  
Eagle Hill School, Hardwick, MA, 2008–2013

### *Responsibilities*

- Design and build websites to serve a variety of audiences
- Produce strategic photographic and video assets
- Design and implement technical solutions for communications and business workflow challenges, including a custom digital signage system
- Design, write and edit annual magazine, print collateral and web content

### *Accomplishments*

- Updated core graphic identity assets for the school and athletic program for the first time in 20+ years
- Built custom Raspberry Pi-based school announcement display system
- Designed print collateral for several seven-to-eight-figure fundraising events
- Developed marketing and communications curricula for students with learning disabilities

## **EDUCATION** **Harvard University, Extension School**

Graduate Certificate, Web Technologies

### **University of Massachusetts Amherst**

Master of Education

*Concentration:* Educational Technology

### **University of Massachusetts Amherst**

Bachelor of Arts

*Major:* Political Science *Minor:* Information Technology, International Relations Certificate

**INTERESTS** Fatherhood, Philosophy, Weird Fiction, Education/Instructional Design, Board Games, Humor