

# Ashley Blewer

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## **National Public Radio, Full Stack Web Developer** — 03/2024 – Present

Sole developer for the cross-functional Research, Archives & Data Strategy department (RAD) at a non-profit media organization and national radio syndicator.

- Manage all technical aspects of the life cycle development of NPR RAD's archive, taxonomy and music production products.
- Lead the gathering, analysis, and development of specifications and requirements as provided by product owners within an Agile-based work environment.
- Work closely with RAD product owners and team, as well as establish and maintain communications with other NPR technologists and external vendors.

## **Myriad Consulting & Training, Digital File Format Expert** — 03/2023 – 05/2024

Contract (11-month) digital preservation technologist role working on researching endangered file formats for the Library of Congress Sustainability of Digital Formats website for a cultural heritage consulting firm.

- Researched and wrote file format descriptions for thirty-nine complex digital formats across a wide spectrum of format types (audio and video, databases, documents, software systems, compression algorithms, et al), including updating 10 additional formats based on emerging research.
- Planned and communicated with internal and external stakeholders to reach project goals based in Agile and Lean Six Sigma methodology practices.

## **Daily, Senior Software Engineer** — 06/2021 – 12/2022

Developer on a team focused on streaming media in and out of online video calls, including recording, live streaming, transcription, and metadata events for a fully remote Silicon Valley-based company.

- Wrote, tested, and developed transcription system design based on cloud-based AWS architecture and utilizing MediaSoup, Gstreamer, FFmpeg, Node.js (JavaScript & TypeScript), Python, and Rust.
- Contributed code, testing, documentation and maintenance work for live streaming and recording products (including applications written in React, ReactNative, Web Components, Next.js, Vue).
- Communicate directly with customers to identify and develop technical solutions that meet product needs.

## **Artefactual Systems Inc., Audiovisual Preservation Specialist** — 01/2018 – 05/2021

Multidisciplinary role as systems analyst, developer, client success manager and maintainer for a small, largely remote company that builds open source software tools in the cultural heritage sector. Managed every part of the software development lifecycle, from client engagement, analysis, documentation, development, code review, quality control and testing, deployment, and public outreach and training.

- Owned complex technical infrastructure and software integrations projects for large organizations (such as Museum of Modern Art, Tate Galleries, Whitney Museum of Art, University of Washington, UCLA), providing expert technical analysis and successful delivery.
- Ensured customer success and systems management for 50+ clients, managing upgrades, custom features and training.
- Delivered custom site theming (CSS, JavaScript) for clients using PHP-based archival management software (AtoM).
- Designed and shipped new features based on user input for preservation actions workflow engine (Archivematica) in Python, with Django, Elasticsearch, FFmpeg, gearman, Imagemagick, MySQL, Ubuntu, and other technologies.
- Provides subject matter expertise on information technology best practices and audiovisual file format management to Artefactual staff and clients through technical writing and presentations.

## **New York Public Library, Applications Developer — 08/2015 – 08/2017**

Developer of internal tools and data pipelines for public online access at the nation's largest public library system.

- Developed database-driven and serverless web applications using Apache Solr, AWS Lambda, JavaScript (Angular, React), MySQL, PostgreSQL, RabbitMQ, Ruby (Rails), and other technologies.
- Designed library-wide workflows for petabyte-scale media pipelines for web-based public access platforms and long-term asset preservation (using Fedora Commons, Java, Javascript, and Ruby).
- Optimized existing web applications and developed new features for data pipelines used to move catalog content and newly digitized assets to public-facing interfaces.
- Collaborated with a larger team and stakeholders across the library to create new and innovative online experiences for the public.

## **MediaArea.net SARL, Audiovisual Analysis Software Consultant — 01/2014 – 03/2021**

Project-based roles focused on product design, user experience, documentation, web development, format specification analysis, promotion, user/developer support, and management. Worked on the following projects:

- DVRescue, CLI+GUI application that migrates DV tapes into digital files, written in C++ (Qt). (12/2019 – 03/2021)
- BWF MetaEdit, a tool that adds metadata to Broadcast WAVE Format (BWF) files, written in C++ (Qt). (01/2018 – 03/2021)
- SignalServer, a web-based QCTools metadata analysis server written in Python (Django) and D3. (02/2016 – 07/2018)
- MediaConch, an audiovisual file conformance checking software written in C++ (Qt) and CSS/JavaScript and support for the standardization of Matroska, FFV1, and FLAC specifications through the IETF. (07/2014 – 12/2017)
- QCTools, an audiovisual quality control and analysis software (CLI+GUI) written in C++ (Qt) (01/2014 – 07/2018)

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## OTHER WORK

### **Pratt Institute School of Information, Visiting Assistant Professor — 08/2019 – 01/2021**

Taught APIs, databases, HTML/CSS, networking, and other technology fundamentals to information sciences graduate students.

### **No Time To Wait!, Conference Organizer — 2016 – 2019 (#1 - #4)**

Organized annual conference focused on open source audiovisual file format developers, standards authors, and preservationists.

### **La MaMa ETC & Mark Morris Dance Group, Archival Software Consultant — 2015 – 2019**

Developed database, data model, cataloging workflows, infrastructure and front-end design for non-profit arts organizations.

### **Bluecore, Forward Deployed Engineer — 12/2014 – 05/2015**

Wrote JavaScript embedded into client sites for AI-powered marketing integration. Acted as technical voice for client and sales conversations.

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## EDUCATION

**Recurse Center** *Participant at self-guided, collaborative programming retreat, 2018*

**Fog Creek Fellowship** *Fellow at Trello, 2014*

**Flatiron School** *Graduate, Immersive Web Development Program, 2014*

**University of South Carolina** *Master of Library and Information Science, 2013*

**University of South Carolina** *Bachelor of Arts, Graphic Design, 2008*