

## EDUCATION

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| Michigan State University, East Lansing, MI<br>M.A., Media and Information | Aug 2015 – May 2018 |
| North Park University, Chicago, IL<br>B.A., History                        | Aug 2007 – May 2011 |

## EXPERIENCE

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| <i>Senior Software Engineer</i><br>Arc XP, The Washington Post   | Feb 2020 –          |
| <ul style="list-style-type: none"><li>• Leading efforts to implement on-demand video (VOD) monetization via server-side ad insertion (GAM/DFP, SCTE-35, SCTE-104)</li><li>• Contributing to and/or leading efforts to modernize live and on-demand video encoding, packaging, and delivery workflows (CloudFront, Akamai, AWS Elemental)</li></ul> |                     |
| <i>Software Engineer II</i><br>GP Strategies Corporation   | Aug 2017 – Feb 2020 |
| <ul style="list-style-type: none"><li>• Modernized traditional Java web app (Spring, Spring Boot, Amazon ECS, Terraform)</li><li>• Provided operational support (Datadog, Splunk, Amazon CloudWatch, ELK, JMX)</li></ul>   |                     |
| <i>Front End Developer</i><br>Matrix Center for Digital Humanities and Social Sciences   | Feb 2017 – Aug 2017 |
| <ul style="list-style-type: none"><li>• Worked on the peer-review mechanism of an open access academic journal</li><li>• Developed WordPress theming (PHP, JavaScript, HTML, CSS) from design comps</li></ul>  |                     |
| <i>Full Stack Developer</i><br>School of Social Work, Michigan State University  | Jan 2017 – Aug 2017 |
| <ul style="list-style-type: none"><li>• Designed, developed, and deployed an app for data upload, processing, and visualization</li><li>• Programmed behavior in Python (Flask) and JavaScript (React.js, D3.js)</li></ul>   |                     |
| <i>Research Assistant</i><br>Department of Advertising and Public Relations, Michigan State University   | Sep 2015 – Aug 2017 |
| <ul style="list-style-type: none"><li>• Prepared and analyzed data with Python, R, and IBM SPSS</li><li>• Implemented psychological research protocols as JavaScript applications</li></ul>  |                     |
| <i>Web Accessibility/Usability Intern</i><br>College of Arts and Letters, Michigan State University  | Sep 2015 – May 2016 |
| <ul style="list-style-type: none"><li>• Remediated websites and LMS courseware for WCAG 2.0 compliance</li><li>• Reported on usability and accessibility to academic technology leaders in the College</li></ul>   |                     |

## SKILLS

- Operating cloud native applications and infrastructure on AWS, GCP, Heroku
- Developing software with Java, JavaScript, TypeScript, Python, Scala, C++
- Analyzing and troubleshooting media assets (MPEG-TS, ISOBMFF, GPAC/MP4Box)
- Optimizing streaming acquisition, processing, and delivery (HLS and DASH; FFmpeg)
- Troubleshooting ad delivery, measurement, and tracking (VAST & VMAP, IAB OM SDK)
- Modeling and utilizing relational and non-relational data (PostgreSQL, Db2, MongoDB)