

# DONATO E. BORRELLLO

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## EXPERIENCE

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STAFF ENGINEER  
GOOGLE

FEB 2024 - PRESENT  
REMOTE, NJ

- Led Google Ad Manager response to Instream video advertising for Privacy Sandbox, responsible for a projected \$xxxM in revenue-loss mitigation.
- Re-architected the video SDK lifecycle to solve for zero-latency ad playback using a combination of offline video playback and just-in-time ad decisioning, via interstitials.

TECH LEAD/MANAGER  
GOOGLE

MAR 2021 - FEB 2024  
REMOTE, NY

- Rebuilt the Video Ads SDK team after 4 members left, including the acting manager.
- Developed the next generation of leads by carving out areas of ownership, then coaching and delegating responsibilities.
- Drove development of 16 distinct binaries by emphasizing developer scalability and investments in tooling + productivity.
- Responsible for xx Trillion ad requests/year, 3x growth in GAM SDK impressions over 1.5 years.

TECH LEAD  
GOOGLE

FEB 2018 - MAR 2021  
NEW YORK, NY

- Championed and implemented a solution for bringing Google-signed-in personalization to Instream video advertising on Android.
- This new module is running on 1B+ devices, enabling low-latency cross-device advertising and unlocked a critical business partnership.
- It has been extended to solve for GoogleTV and gBid (500k reqs/second) due to its performance and handling of user-privacy. It is now being investigated as the core identity provider for AdMob.
- Oversaw implementation of GDPR, CCPA and COPPA compliance for digital video advertising, impacting 2B+ impressions/day.

ENGINEERING MANAGER  
JW PLAYER

APRIL 2016 - JAN 2018  
NEW YORK, NY

- Interviewed, hired and built out the Data organization from 8 members to 30, as part of four independent teams.
- Successfully helped principal and senior engineers with career planning and coaching, through humbleness and asking questions.
- Drove data architecture decisions when scaling data systems, from 15k req/sec to 60k req/sec.
- Perform technical comparisons and break-even analysis of technology stacks, then negotiated package pricing with cloud providers including AWS, Snowflake and ModeAnalytics.
- Revamped processes for Database Changes and Incident Response to 70 engineers across 8 teams; decreasing service outages from 0.15% to 0.01% weekly.

SENIOR SOFTWARE ENGINEER  
JW PLAYER

MAY 2014 - APRIL 2016  
NEW YORK, NY

- Redesigned the Javascript message bus for higher performance, shaving 20% off startup time, across 1 billion plays per month.
- Lead Engineer on implementing VPAID2 specification from the IAB, HLS standard from Apple, and Chromecast from Google.
- Prototyped and built a full-stack testing framework combining automated and manual tests. Regression testing decreased from 4 weeks to 1.5 weeks.

SOFTWARE ENGINEER  
FACTSET RESEARCH SYSTEMS

JUNE 2012 - APRIL 2014  
NEW YORK, NY

- Technical Lead on several web applications, setting the record for fastest rendering time among hundreds.
- Created a tool *p4-compare*, which let developers compare the cyclomatic complexity of their code changes against the baseline before committing it.
- Built out a toolkit for rapidly prototyping new reports, allowing teams in New York, Norwalk and London to search and share code as reusable modules.
- Learned to maintain, extend, and love legacy codebases. Or at least love refactoring them.

RESEARCH FELLOWSHIP WITH XEROX  
UNIVERSITY OF ROCHESTER HCI LAB

JUNE 2011 - MAY 2012  
ROCHESTER, NY

- Researched crowd-sourced real-time audio transcription for hearing-impaired internet users.
- Developed a management application for Amazon Mechanical Turk which allowed faster iteration on experiments.
- Awarded Xerox Fellowship for contributions to real-time processing of crowd inputs.

FULL STACK GAME DEVELOPER  
FREELANCE

JUNE 2008 - APRIL 2012  
NEW YORK, NY

- Created a new interface to a text-based MMORPG, to enhance and improve fundamental gameplay.
- Provided real-time analytics comparing 800+ registered users - at peak popularity 50k writes per day.
- Wrote bots to simulate human interaction, automating every aspect of gameplay. Required header-spoofing, captcha cracking, and basic NLP. (Don't tell the admins!)

## EDUCATION

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Bachelor of Science, Computer Science  
University of Rochester

May 2012  
Rochester, NY

## PUBLICATIONS

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**Promoted Content Selection and Delivery in a Television Platform** March 2023  
Utility patent (GP-304960-00-US) for user addressability on TV platforms, utilized by Android TV.

**Real time Captioning by Non-Experts** October 2012  
White-paper on crowd-sourcing audio transcription, nominated for best paper at UIST.

**Online Sequence Alignment for Real-Time Audio Transcription by Non-Experts** November 2012  
Research on aligning tokenized input for optimal sequencing, published at AAAI 2012.

## OTHER CONTRIBUTIONS

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**Election Reform New York** February 2017 - 2020  
Founder of non-profit group that got Ranked Choice Voting passed for primaries in NYC in June 2019.

**The Nitty Gritty of Adaptive Video Transmuxing** May 2016  
Presented to EmpireJS on efficient video transmuxing to improve time to first frame (400+ attendees).

## SKILLS

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- **Leadership:** Management, Mentoring, Hiring, Performance Reviews, and Career Development
- **Programming Languages:** Java, JS/TS, C++, Python, and SQL
- **Data Experience:** Spark, Storm, Kafka, Hadoop/MapReduce, Hive, and GraphX
- **Interests:** Music, Election Reform, Gardening, and Chat bots, Data Visualization
- **Favorite Places:** New York, Puglia, Nanjing, Turks'n Caicos, Tamarindo, and Buenos Aires