Donato E. Borrello

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EXPERIENCE

TECH LEAD VIDEO ADVERTISING GOOGLE

Feb 2018 - Present New York, NY

- Designed a low-latency system for cross-screen ad serving on server-to-server ad requests. The system was fundamental to closing a deal which swung Disney from FreeWheel to Google Ad Manager.
- This same system is being extended as the back-bone of Googles next gen real-time-bidding platform (500k reqs/second) due to it's performance and handling of user-privacy.
- Championed and implemented a solution for bringing Google-signed-in personalization to Android for the first time using Google Play Services. This module is running on 1B+ Android devices.
- Oversaw implementation of GDPR, CCPA and COPPA compliance for digital video advertising, impacting 2B+ impressions/day.
- Design and lead global strategy for Ads Transparency for Connected TV devices including Android TV, Apple TV, Roku, FireTV and Chromecast.
- Tech Lead for Android Video Advertising SDK. Handles 400m+ impressions/day and earns 3x revenue per impression as display ads.

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 humility and asking questions.
- Worked closely with Product Management to plan quarterly and annual roadmaps for each team.
- 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.
- \bullet 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.

- 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

Bachelor of Science, Computer Science University of Rochester May 2012

niversity of Rochester Rochester, NY

PUBLICATIONS

Real time Captioning by Non-Experts

October 2012

A white-paper on crowd-sourcing as an alternative to professional services for economically viable audio transcription. Nominated for best paper in the 25th Annual UIST Conference.

Online Sequence Alignment for Real-Time Audio Transcription by Non-Experts November 2012 Research into aligning tokenized input from by multiple different users to determine the most likely correct sequencing. Published by the 26th Annual AAAI Conference 2012.

OTHER CONTRIBUTIONS

Election Reform New York

February 2017 - Present

Founder of a non-profit group, partnered with FairVote, to bring Ranked Choice Voting to New York. On June 2019, it was passed in NYC for all municipal primaries and special elections!

The Nitty Gritty of Adaptive Video Transmuxing

May 2016

A technical talk at the EmpireJS Conference on efficiently transmuxing video in javascript for improving time to first frame, with over 400 attendees.

SKILLS

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