

# Maximizing Ad revenue using cutting-edge technologies for Frontend optimization

# At a glance

Industry
Digital publishers

Business problem
Simplify and automate
publishing processes to boost
advertising revenue and
enhance user experience

# Expected goals

Improve website experience, reduce operational costs, optimize ad revenue

#### Solution

Website redesigned and migrated to a cost-effective hosting with required integration with advertising partners by re-engineering the AdTech stack

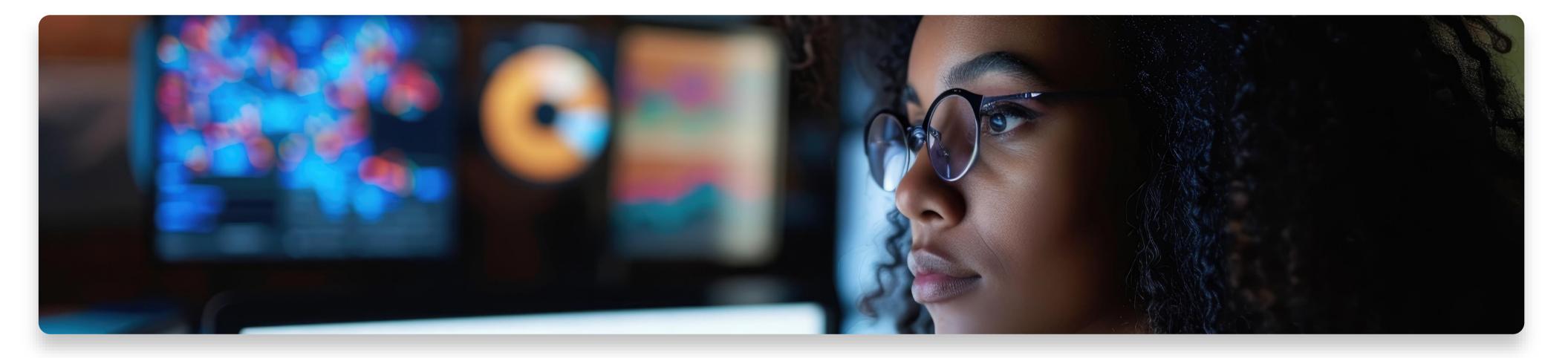


# **Context**

The client is a US-based digital media publishing company. They sought to scale their publishing process and increase the speed of content publishing while reducing costs. They aimed for simplified and automated processes to boost advertising revenues and enhance user experiences.







# **Business problem**

The client's existing website was ill-suited for scalable publishing, adversely affecting user experience and hampering ad revenue generation.

The key challenges that the client was facing were:

- High hosting costs
- Slow website loading
- Legacy CMS system that was slowing the publishing process and negatively affecting user experience
- Ineffective AdTech stack leading to revenue leakage

# **Expected goals**

The client's expectations from this engagement were to:

- Reduce hosting cost
- Attract higher volumes of visitors
- Enhance user experience while consuming content
- Maximize ad revenue



#### Solution delivered

To take care of the diverse requirements, the following actions were completed:

- The website was migrated to a faster and more cost-effective hosting platform, WordPress, an open-source CMS, to improve performance and governance and to streamline the publishing process.
- The AdTech stack was re-engineered by integrating it with the Google Double Click for Publishers (DFP) platform. This is to improve revenue forecasting, traffic management, platform optimization, attract high traffic volume, and improve the user experience.
- Integration with AdTech partners using JavaScript technologies to help the client retain traffic and arrest revenue leakages.
- Faster communication between the back-end and front-end was secured and optimized by deploying an API Strategy, leveraging Swagger tools (Swagger UI, Validation, and Router).



# Solution highlights

- The website was migrated to WordPress while keeping the metadata intact through custom migration scripts.
- The AdTech stack integration was done with 47 partners to arrest revenue leakage. An example is the integration with Sulvo, which optimizes the user experiences while unifying demand and helping retain the adblock traffic.
   Similarly, integrations with video advertising partners like YieldLove and Seracast and multiple advertising networks helped to seal ad leakages and assisted the client generate maximum revenue from their traffic.

# Technology stack deployed:

- Hosting and CMS: WordPress, WordPressVIP and Boyle Software's own Hearty Hosting solution
- AdTech stack: Google DoubleClick for Publishers (DFP) platform
- Back-end: Integrated with AdTech partners using JavaScript technologies, such as ES6, Express.js, and Node.js, along with AWS technologies like ECS, SQS, Cognito, and S3
- For API communication: Swagger tools that included Swagger UI, Validation, and Router



# Outcomes of the engagement

The key outcomes of the engagement were:

- Reduction in website hosting costs and improved website performance as the result of the highly scalable and faster website
- Improved user experience and increased ad revenue due to the scalable and responsive AdTech stack
- Near 100% uptime for the website, resulting in client satisfaction

# Key project outcome metrics:



32%

Improvement in cost per action



200

Increase in clickview-throughs



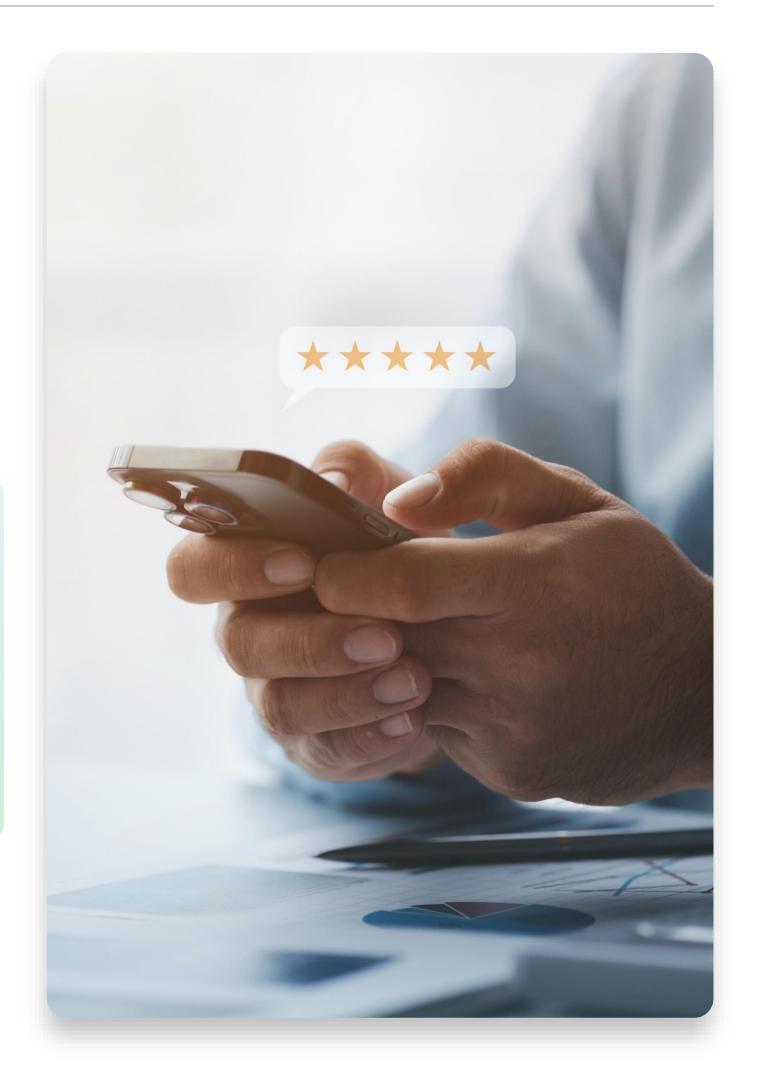
13

More pages visited on average



30

Minute increase in average time on site per session





# BOYLE SOFTWARE

A **Beyondsoft** Company

Since our founding 35 years ago, Boyle Software has been a company that is far more than the sum of its parts.

A subsidiary of global consultancy Beyondsoft since 2020, we pride ourselves on our highly skilled team, full of passion and knowledge for the latest design concepts and technologies.

Headquartered in New York City since 1995, we have operations in Europe and resources all around the globe – from Uruguay to Costa Rica, from Singapore to Thailand.