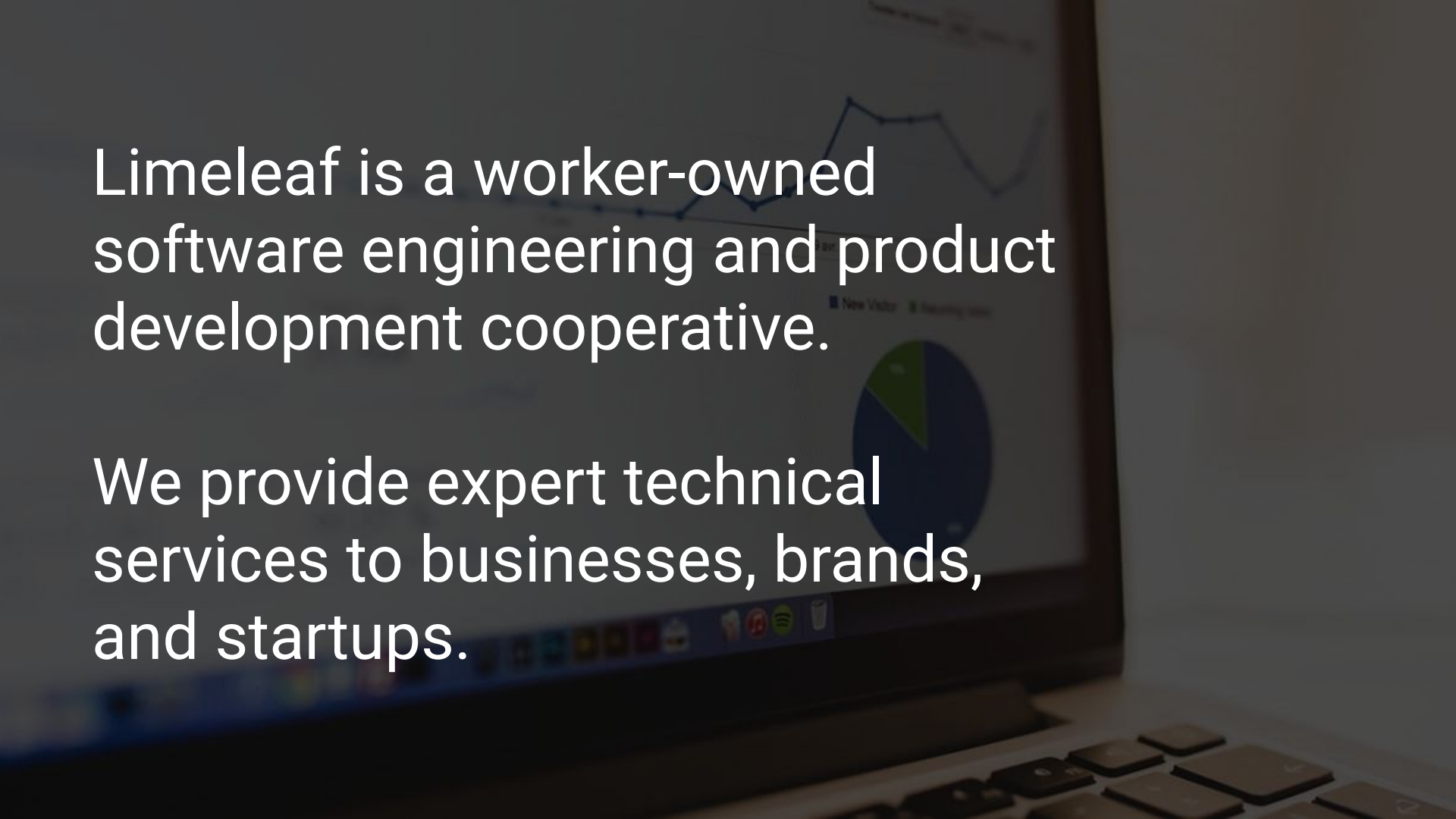
Fresh, Sustainable, Simple Tech Solutions



Limeleaf is a worker-owned software engineering and product development cooperative.

We provide expert technical services to businesses, brands, and startups.

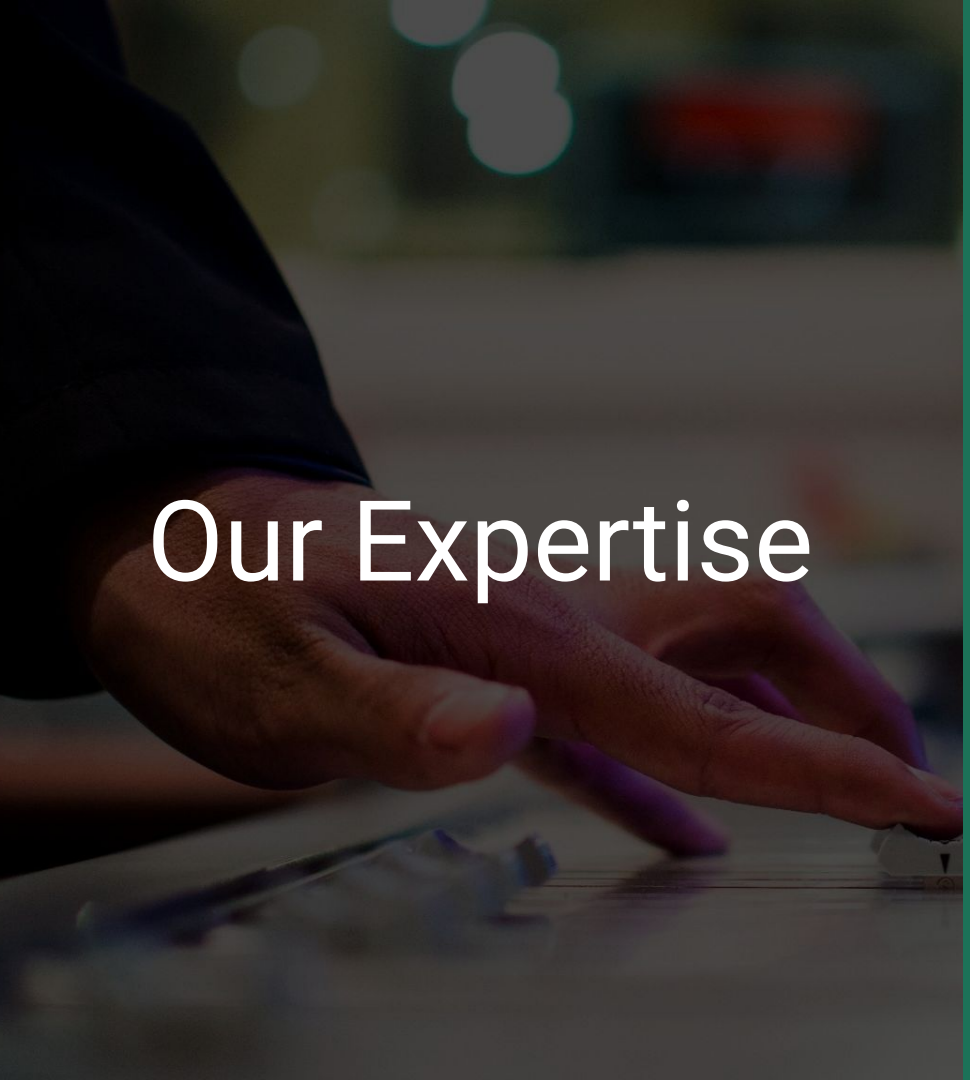
Why Limeleaf?

Decades of collective experience in all facets of software product development

Unparalleled technical expertise

Collaborative, transparent, and client-focused

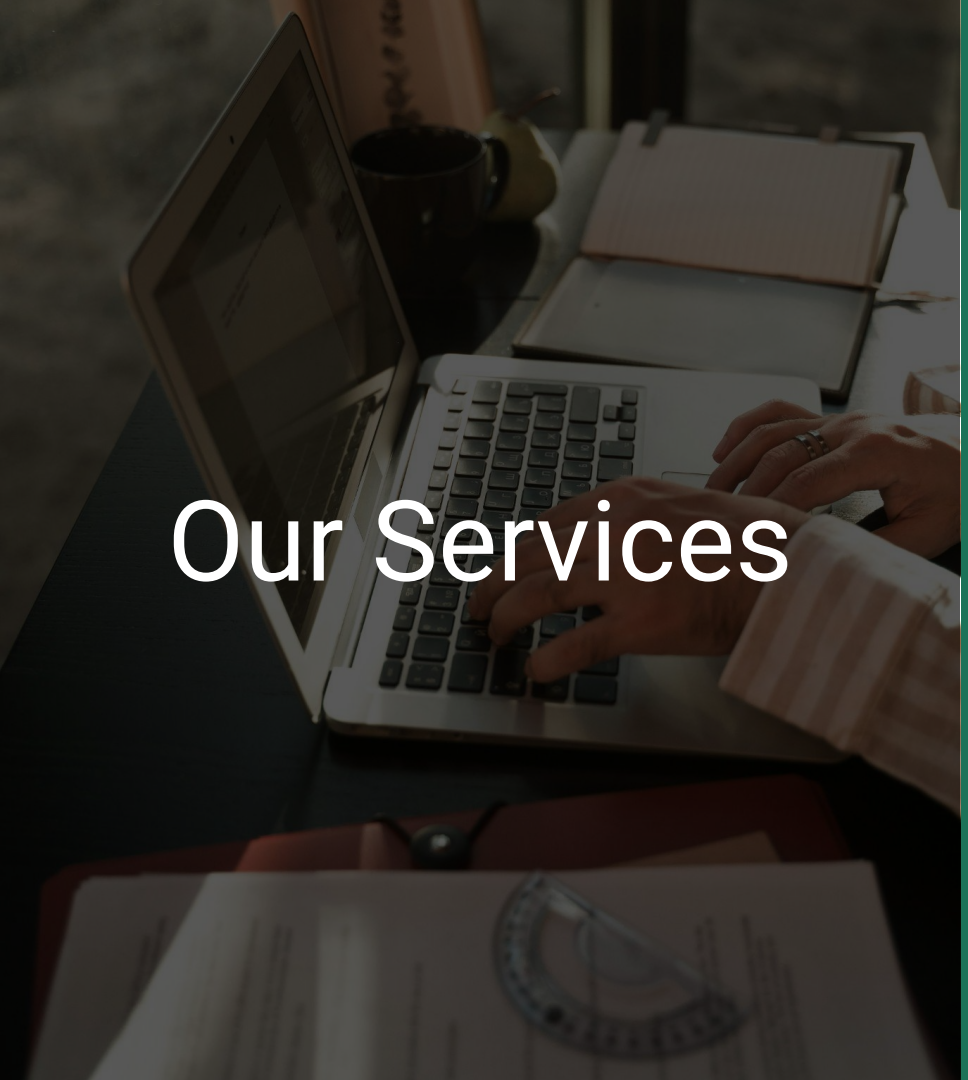
Committed to sustainability and worker ownership



Our Expertise

Extensive experience building web and mobile apps, video game platforms, OTT services, PKI & MFA systems, IoT devices, and more.

We have built products at Google, Electronic Arts, ngrok, runZero, Kinetic, MadGlory/PUBG, Rocket Science, Wolfjaw Studios, RSA Security, and others.



Our Services

- Full-stack software and product development
- Minimum Viable Product (MVP) development
- IoT development, systems programming
- Specializing in Go, Rust programming
- Audio/Video streaming solutions
- Video game services
- Technical guidance and consulting

Our Team

Software Engineering and Product Experts

John Luther

Product Manager

Google, JW Player, On2,
RSA Security, Nuvalence

Blain Smith

Software Engineer

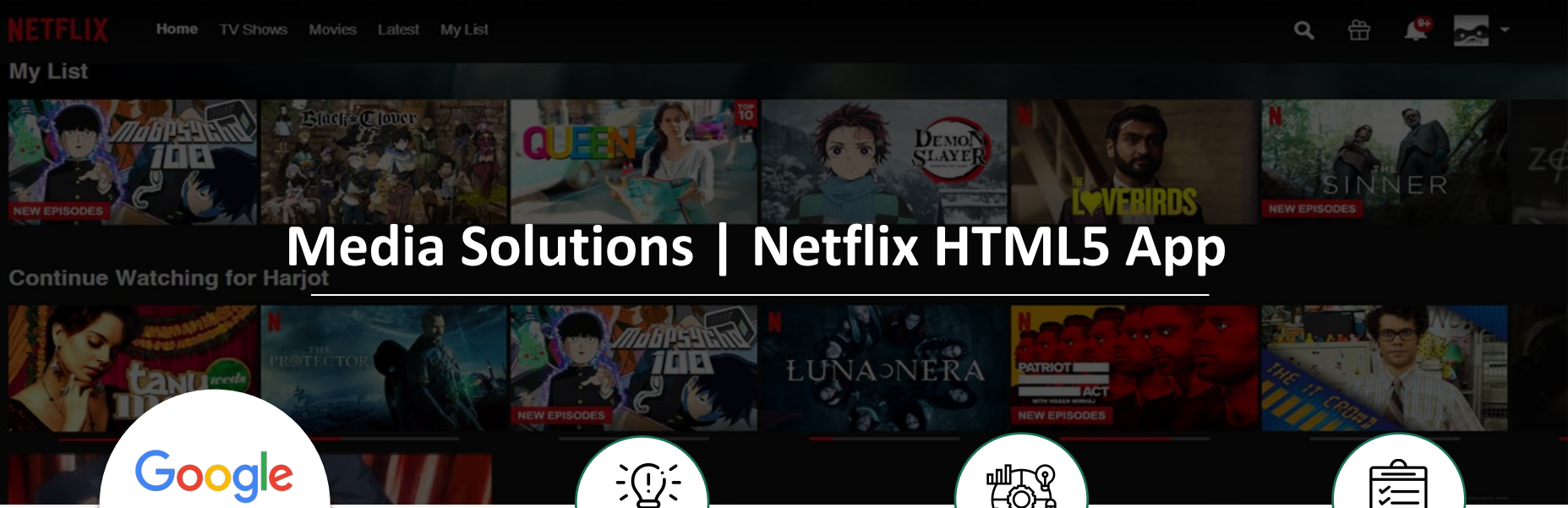
ngrok, MadGlory, runZero,
Kinetic, Harvard University

Erik Straub

Software Engineer

Electronic Arts, MadGlory,
Wolfjaw Studios

Case Studies



Media Solutions | Netflix HTML5 App

Google
NETFLIX

Google + Netflix

Led a partnership to create the world's first HTML5 app for premium video.

Problem

Chrome users wanted to stream Netflix, but Microsoft discontinued Silverlight video+DRM plugin

Solution

Created HTML5 APIs for DRM and adaptive streaming, Widevine DRM module for Chrome

Results

- Launched feature with Netflix at Google I/O
- Every major streaming service has since adopted the tech

Media Solutions | Mobile Video Player SDKs

JW Player

Built and launched native Android and iOS SDKs for video playback and advertising monetization

Problem

HTML5 video players lacked features and performance only possible with native APIs

Solution

Staffed two Eng teams, wrote product requirements, oversaw development and Beta program, led go-to-market

Results

- Launched in four months
- Added 20% to JWP revenue in first year
- +50 million DAUs as of March, 2024

Media Solutions | JW Platform

JW Player

Built a comprehensive online video delivery and management solution

Problem

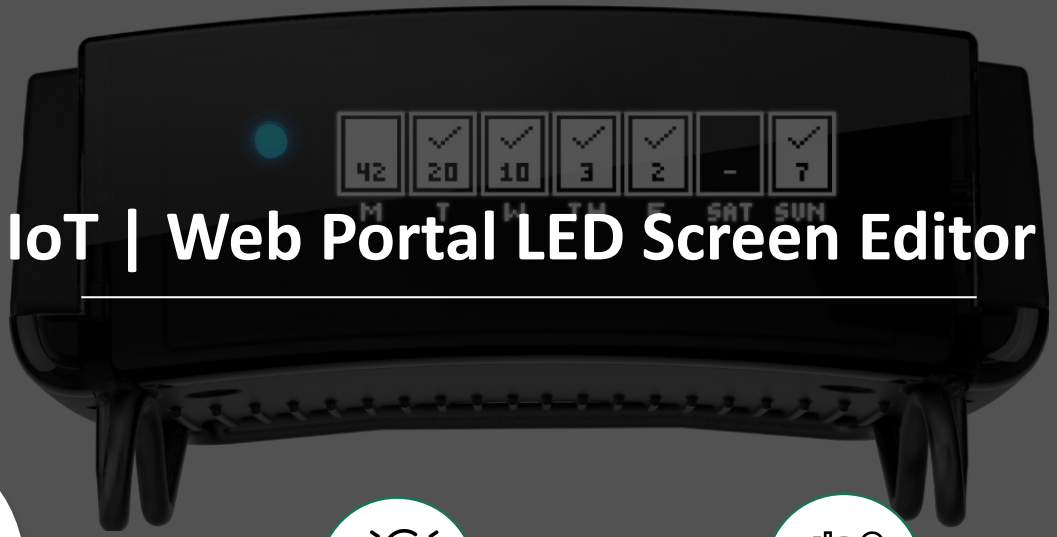
Outdated video CMSes cause poor video quality, rebuffering, limited analytics and monetization

Solution

Advanced video hosting and delivery platform: globally scalable, flawless video quality, real-time analytics, advanced monetization

Results

- Superior visual video quality
- Minimal video buffering
- Increased watch time
- Increased ad fill rates
- Lower costs



IoT | Web Portal LED Screen Editor

KINETIC

Kinetic

Built remotely controlled monochromatic LED screen management system for Reflex wearable

Problem

Wearable devices required dynamic screen information to be pushed to them from a centralized web portal

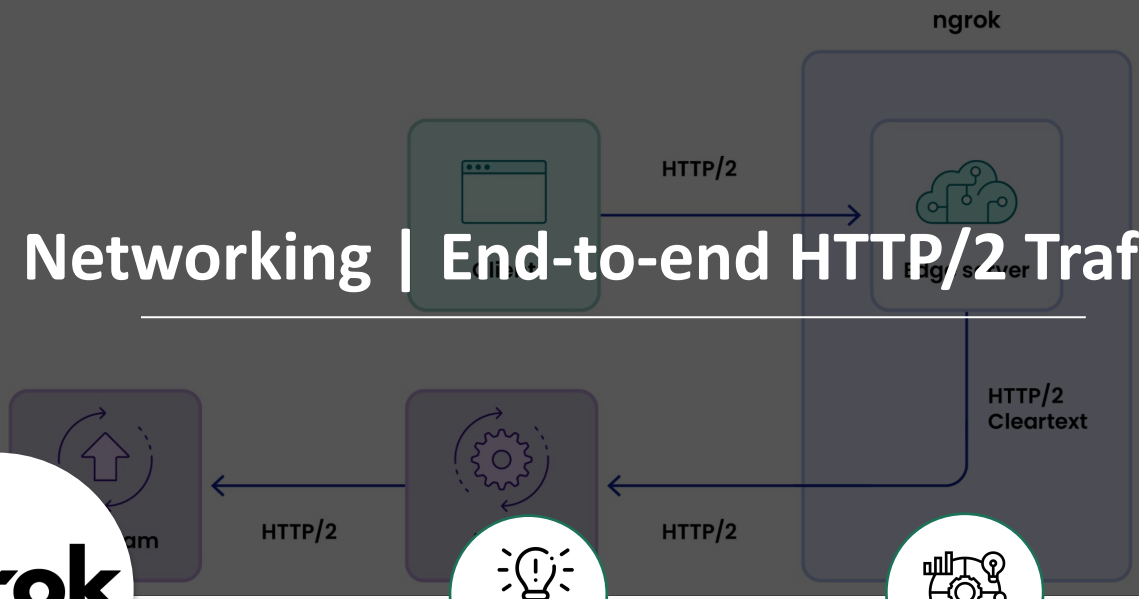
Solution

HTML/JS/Go web app with monochromatic image-editor-generated bitmaps fetched by C firmware displayed on the screen

Results

- Personalized visualizations
- Custom screen text & icons
- Quicker testing of features

Networking | End-to-end HTTP/2 Traffic



ngrok

[Enabled HTTP/2 support] to edge nodes enabling not only web-based HTTP/2 traffic, but also streaming gRPC traffic.

Problem

All modern browsers support HTTP/2 for fast delivery, but edge nodes downgrade traffic to HTTP/1.1, creating bottlenecks

Solution

Network edge nodes are configured to retain HTTP/2 traffic knowing the server to which it is forwarding traffic also supports HTTP/2

Results

- Browser to origin server has full HTTP/2 support
- gRPC support for free
- Bi-directional streaming

Advanced Systems | Linux NIC Timestamps

Subspace

Improved routing, jitter reduction between network nodes using Linux sockets

Problem

Kernel-to-userspace jitter affected traffic routing when collecting timestamps between nodes.

Solution

Collect the timestamp when the packet is transmitted and received at the NIC directly.

Results

- More accurate latency without jitter
- Customer traffic routing improved
- Routing reaction time decreased


Contact us to discuss your project!
info@limeleaf.io
calendly.com/limeleaf