



# 85% AWS Cost Reduction

GREG SOLUTIONS

# About The Client

**DERMPRO**

<https://dermpro.com>

DERMPRO is a hosted e-commerce and marketing platform designed specifically for the aesthetics services industry. are communication tools.

LOCATION

USA

INDUSTRY

E-COMMERCE

# The Challenge

## TIME

Decrease application build and deployment time

## AUTOMATION

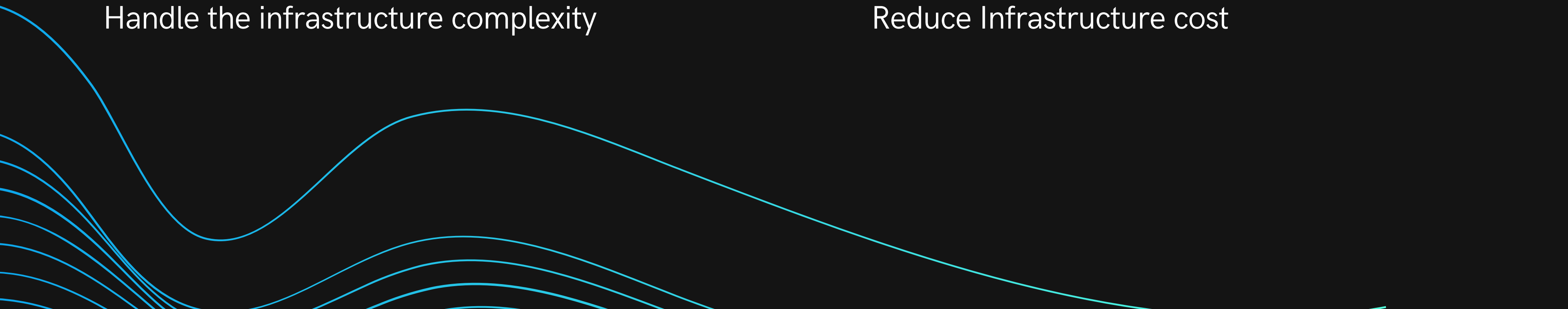
Automate new Magento shop provisioning

## COMPLEXITY

Handle the infrastructure complexity

## COST

Reduce Infrastructure cost



# Project Summary

## TEAM SIZE

2-3 DevOps  
Engineers

## DURATION

16 months + ongoing  
development

## EXPERTISE DELIVERED

- DevOps Consulting
- AWS Infrastructure Design
- Kubernetes & Docker Adoption
- AWS Infrastructure Cost Reduction
- E-Commerce platform development
- Monitoring System Integration
- Logging System Integration
- CI/CD Implementation



# Results

DECREASED INFRASTRUCTURE  
COST BY

87%

INCREASED BUILD SPEED BY

85%

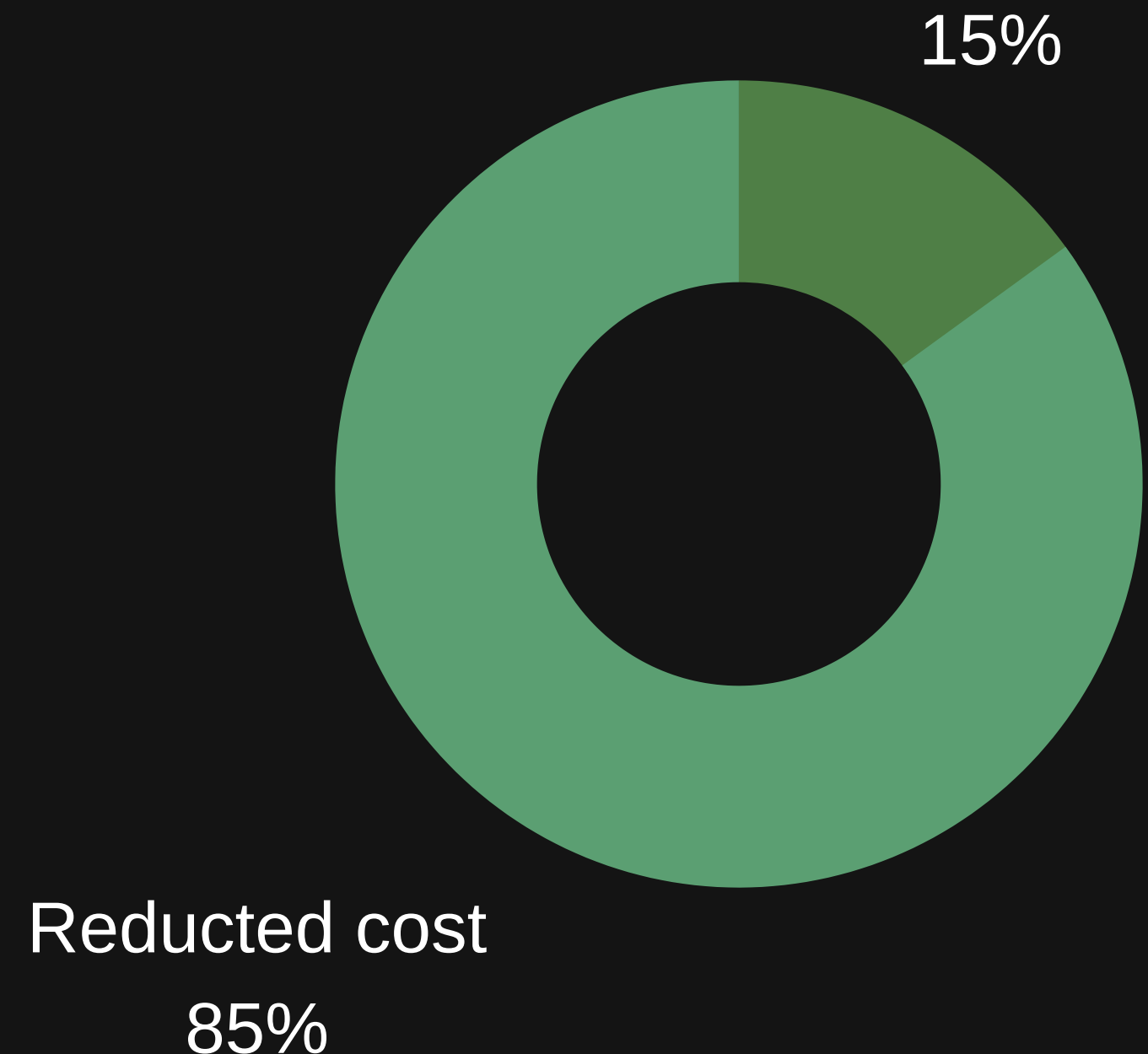
AUTOMATED NEW SHOP  
PROVISIONING

15 minutes

# 85% Decreased Infrastructure Cost

Migrated to cost-effective Amazon Elastic Kubernetes clusters

- AWS EC2 Spot Instances
- AWS EC2 Reserved Instances
- Revised current infrastructure



# 87% Increased Build Speed

## OPTIMIZED CONTINUOUS INTEGRATION

Optimized the CI process with Jenkins and parallel functional tests execution

## LIGHTWEIGHT DOCKER IMAGES

Created lightweight docker images for the applications

## SDK TEMPLATE

Implemented custom SDK template for new applications

# Improvements

## AUDIT PROCESS

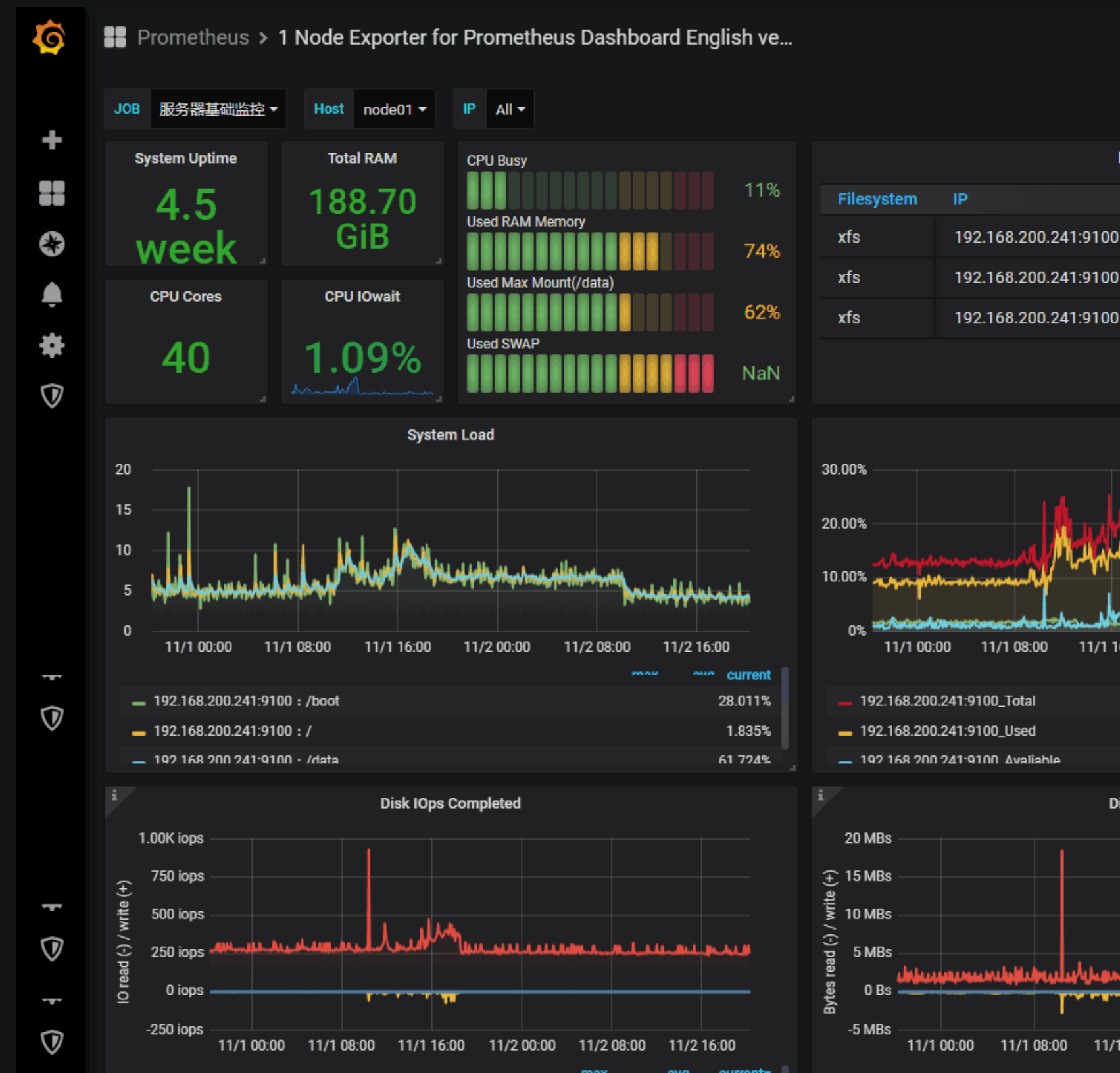
Integrated centralized logging

## USER MANAGEMENT

Implemented role-based access and centralized user management

## INTEGRATED MONITORING

- AWS Infrastructure
- Kubernetes clusters
- Client applications





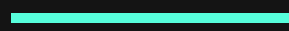
# Simplifications

## INFRASTRUCTURE MANAGEMENT

Simplified infrastructure management & provisioning

## DISASTER RECOVERY

Improved disaster recovery



Used Packer and Terraform as Infrastructure as a Code tools.



# Technical Stack



Kubernetes



Docker



AWS EKS



OpenVPN



Amazon Web Services



Elastic Stack



GoCD



Prometheus



Grafana



Terraform



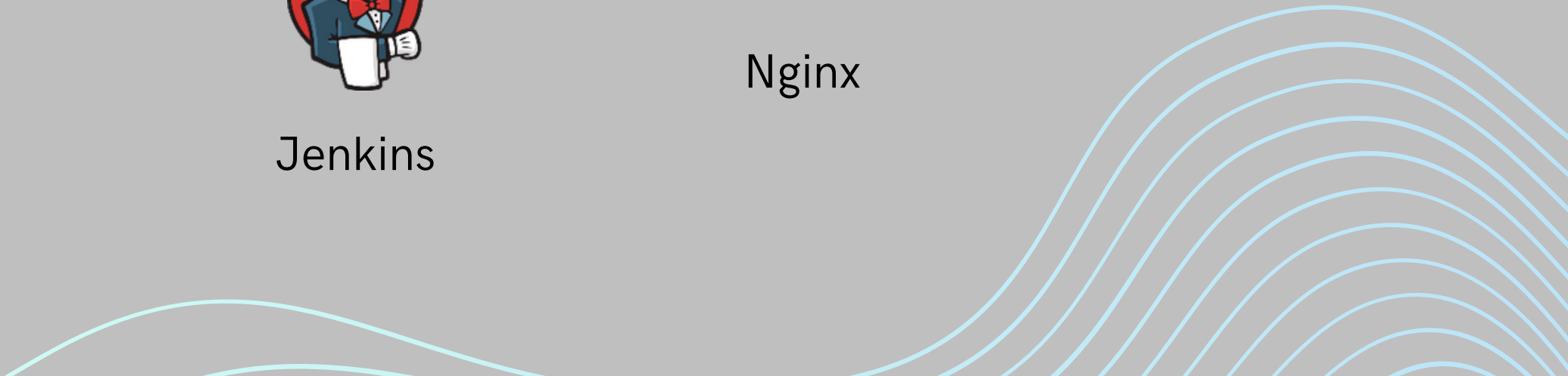
Magento



Jenkins



Nginx



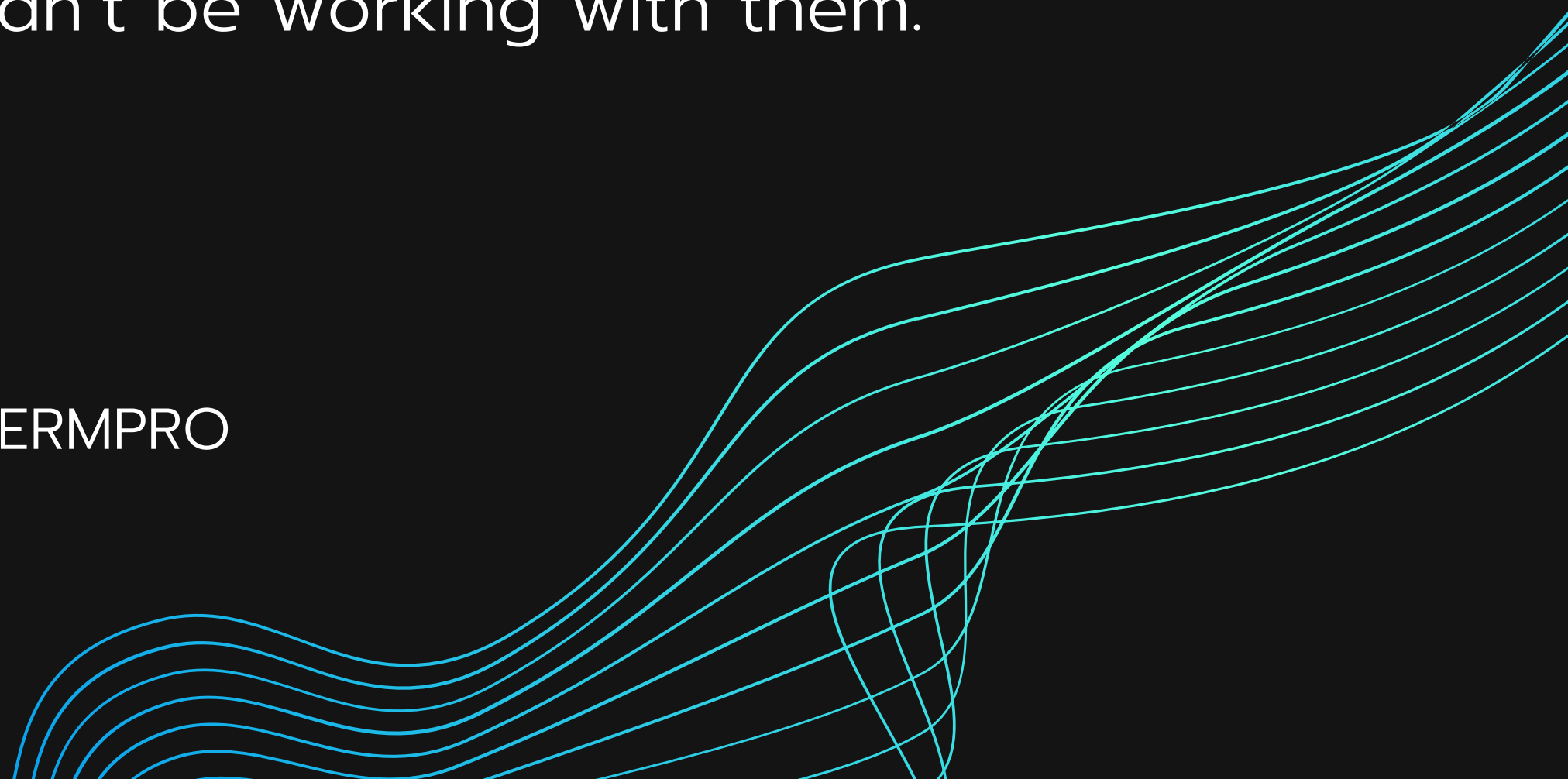
# Client Feedback

“Their technology, language capabilities, and work seemed to be rock solid. Greg Solutions is one of those firms that understand all components. They’re professional, and I see no future where I wouldn’t be working with them.”



Jay Oykawa

Managing Director at DERMPRO





# Let's keep in touch

## CONTACT US

info@greg-solutions.com

## READ MORE

<https://greg-solutions.com/cases/dermpro>

