QUILL DEVELOPERS

Digital Product & Engineering Studio

We architect and build high-performance web platforms, headless e-commerce, custom applications, and autonomous AI systems — engineered for scale from day one.

95+	<120ms	100%	24h
Avg. Lighthouse Score	Global Edge TTFB	Client IP Ownership	Response SLA

quilldevelopers.com · hello@quilldevelopers.com

WHAT WE DO

Four core disciplines. Zero compromise.

01

Website Development

High-performance marketing platforms and headless web experiences built with architectural rigor.

02

E-Commerce

Custom storefronts, frictionless checkout flows, and enterprise infrastructure for brands outgrowing templates.

03

App Development

Client portals, data dashboards, and bespoke SaaS platforms engineered for security and long-term scale.

04

AI Agents

Autonomous agent workflows, n8n pipelines, and human-in-the-loop systems for mission-critical operations.

Built for: SaaS · Technology · B2B · E-Commerce · Startups

WHY QUILL

We engineer systems, not disposable templates.

Speed as a Strategy

Sub-second edge speed is not an optimization — it is a conversion multiplier. Every platform we ship targets 95+ Lighthouse out of the box.

Principal Ownership

No account managers, no middle tiers. You communicate directly with lead architects who write every line of production code.

Zero Lock-In

Standard TypeScript and Next.js. 100% IP handover with full GitHub repository ownership on delivery. No proprietary framework dependencies.

Zero Junior Handoffs

Pitch done by directors, execution by interns? Never here. Senior engineers own every commit from discovery through production launch.

"Most 'fast' websites just moved the slowness to a plugin you can't see." — Quill Developers

OUR COMMITMENTS

Contractual engineering standards, not promises.

95+

Lighthouse Score SLA

Strict LCP, CLS and INP adherence verified on simulated 4G mobile throttles before every release.

<120ms

Global Edge TTFB

Distributed edge middleware serving assets from the geographically nearest node across 18 regions.

100%

Strict Type Coverage

Zero 'any' policy. Every parameter, query and UI component is strictly typed from database schema to interface.

99.9%

Production Reliability
Uptime SLA across all production deployments

100%

IP Handover
Every line of code, commit, and asset belongs to you

All standards contractually backed, not aspirational

ENGINEERING STACK

Production-grade. Battle-tested. Never bolted together.

FRONTEND

- Next.js 15
- React 19
- TypeScript 5.x
- Tailwind CSS v4
- Livewire
- WebGL / 3D

BACKEND & APIS

- Node.js
- Python
- Laravel
- FastAPI
- REST & GraphQL
- gRPC

CLOUD & INFRA

- AWS
- Vercel Edge
- Docker
- RabbitMQ
- n8n
- CI/CD

DATA & STORAGE

- PostgreSQL
- MySQL
- Redis
- Snowflake
- Prisma ORM
- Vector DBs

AI & AUTOMATION

- RAG Pipelines
- LLM Orchestration
- Agentic Workflows
- Fine-tuning
- Embeddings

ENTERPRISE SYSTEMS

- ERP Integration
- RBAC & 2FA
- Audit Trails
- Microservices
- Event-Driven Arch.

Right tool for every layer · No resume-driven development · Built to outlast the build

01 WEB PLATFORMS

Sub-second speed. Flawless vitals.

Bespoke brand flagships and high-converting marketing engines engineered on Next.js 15. Built for sub-second speeds, flawless mobile responsiveness, and measurable lead generation.

- ✓ Next.js 15 App Router & React 19
- ✓ Sub-second Core Web Vitals — 95+ SLA
- ✓ Structured semantic SEO & JSON-LD schema
- ✓ Decoupled headless CMS for marketing autonomy

<1.2s
LCP Target (4G Mobile)

<0.02
CLS Score Target

<40ms
INP Interaction Target

Stack: Next.js 15 · TypeScript 5.x · Tailwind CSS v4 · Vercel Edge

02 HEADLESS E-COMMERCE

High-concurrency commerce that converts.

Modern digital storefronts engineered for transactional speed, frictionless checkout, and global scale. From headless Shopify Plus builds to bespoke multi-currency ordering systems.

- ✓ Shopify Plus & headless GraphQL APIs
- ✓ Sub-second cart mutation & optimistic state
- ✓ PCI-DSS compliant bespoke checkout flows
- ✓ Automated ERP, inventory and CRM sync

0.42s
Cart Mutation Speed
CartQuad production benchmark

+38%
Conversion Uplift
After headless migration

99.99%
Storefront Uptime
Production reliability SLA

Stack: Shopify Plus · Next.js · TypeScript · Tailwind CSS · Vercel Edge

03 APP & SAAS ENGINEERING

Mission-critical systems built right.

Full-stack web applications, SaaS platforms, ERP integrations, and complex distributed systems. Engineered for scale — from multi-tenant cloud infra to event-driven microservice architectures.

- ✓ AWS cloud infra · RabbitMQ message queues · Redis caching
- ✓ ERP integration & complex system design
- ✓ Snowflake · PostgreSQL · MySQL · Prisma ORM
- ✓ RBAC, 2FA, audit trails & SOC-2 ready serverless deploy

What we build

· Client portals & partner dashboards

· ERP & legacy system integrations

· Multi-tenant SaaS & subscription platforms

· Data intelligence & Snowflake warehouses

· Event-driven API gateways & microservices

Security standards

· Bank-grade 2FA on all auth flows

· Full audit trails & session isolation

· SOC-2 ready serverless infrastructure

Stack: Next.js · Node.js · Python · AWS · RabbitMQ · Redis · PostgreSQL · Snowflake · Prisma

04 AI AUTOMATIONS & AGENTS

Autonomous pipelines that scale.

Intelligent workflows, custom AI agent swarms, and LLM integrations that replace repetitive operational friction. Unstructured data and routine tasks become autonomous pipelines.

- ✓ Autonomous multi-agent execution swarms
- ✓ Domain-specific RAG & vector memory indexes
- ✓ Self-hosted n8n orchestrations & webhooks
- ✓ Human-in-the-loop (HITL) approval guardrails

Production outcomes

Research cycle acceleration	10×
Manual work eliminated	95%
Workflow execution cut	80%
Intelligence routing precision	99.4%

Stack: Python · Laravel · n8n · LLM APIs · RAG · Vector DBs

CASE STUDY | E-Commerce · Connected Commerce Engine

cartquad.com

CartQuad

Connected commerce platform unifying e-commerce ecosystems — storefronts, payment systems, inventory and logistics — into unified, high-performance experiences. Their website needed to convey platform sophistication and technical depth without overwhelming merchant visitors.

THE CHALLENGE

Presenting a multi-faceted commerce platform with numerous integration points in a way that felt simple and compelling, not overwhelming.

OUR APPROACH

Platform-style layout with interactive integration showcases, commerce-focused visual language, and conversion-oriented CTAs for both technical and business decision-makers.

OUTCOME

Polished platform website effectively communicating CartQuad's connected commerce value proposition, driving merchant signups at scale.

0.42s
Cart Mutation Speed

+38%
Conversion Uplift

99.99%
Storefront Uptime

Stack: Next.js · TypeScript · Tailwind CSS · React

CASE STUDY | AI & SaaS · Autonomous Agents

iqgent.one

IQgent One

AI-powered agentic research engine built for precision outbound sales teams. Autonomously analyzes company websites, public signals, and structured data to generate executive-level email opening lines that feel deeply researched — not templated.

THE CHALLENGE

Building a complex agentic workflow into an intuitive UI — CSV upload, real-time row-by-row processing, live status indicators — while maintaining sub-second responsiveness.

OUR APPROACH

Python AI worker pipelines combined with a high-throughput Laravel and MySQL core, real-time data streaming, and an emerald brand system conveying trust and intelligence.

OUTCOME

Production-ready SaaS enabling outbound teams to research prospects at machine speed with measurable time savings at every step.

10×
Faster Research Cycles

95%
Manual Work Cut

100/100
Core Web Vitals

Stack: Python · Laravel · MySQL · Next.js · TypeScript · Tailwind CSS

CASE STUDY | Enterprise AI · Workflow Orchestration

siyaa.iqgent.one

Siyaa

Enterprise-grade AI workflow automation and intelligence routing platform for modern enterprises. Enables tier-1 teams to automate complex operational workflows, orchestrate deterministic reasoning agents, and manage intelligent lead routing with bank-grade 2FA security.

THE CHALLENGE

Unifying async Python AI microservices with an enterprise Laravel core, maintaining sub-15ms interface latency, audit trails, and strict two-factor authentication.

OUR APPROACH

Hybrid distributed system combining Python reasoning pipelines, a hardened Laravel backend with RBAC permissions, and an ultra-fast Livewire and Tailwind CSS interface.

OUTCOME

Enterprise ops teams replaced manual data routing with deterministic AI pipelines, dramatically cutting workflow execution time across the organization.

99.4%
Precision Routing Accuracy

<15ms
State Synchronization

80%
Workflow Time Reduction

Stack: Python · Laravel · MySQL · Livewire · Tailwind CSS

OUR PROCESS

A clear path forward. No ambiguity.

01

Discover

Understand your business, audience and goals. We map technical requirements against commercial outcomes.

02

Strategy

Define structure, content architecture and user journeys. Committed delivery timelines before a line of code is written.

03

Design

Create the visual language and responsive interface. High-fidelity interaction design across all breakpoints.

04

Build

Develop using modern, production-grade technology. Daily staging deploys on Vercel Edge for every PR.

05

Launch

Test, optimize and deploy to production. Full handover of GitHub repo, deployment tokens and Figma assets.

06

Grow

Maintain, refine and scale over time. Direct principal access for ongoing optimizations and feature expansion.

Six scoped steps · Clear entry and exit points · No runaway scope

HOW WE WORK

The Principal-Led Pod Model

Legacy Agency Model

- ✕ Non-technical account managers as translation layers
- ✕ Pitch by directors, execution by interns
- ✕ Scope creep and endless billable change requests
- ✕ Obscure timelines, delayed deliverables
- ✕ Spaghetti code with vendor lock-in

Result: Cost overruns, brittle templates, delayed launches

The Quill Pod Model

- ✓ Direct engineering partner access via Slack & GitHub
- ✓ Principal engineers writing every core production line
- ✓ Fixed sprint pricing and committed delivery timelines
- ✓ Continuous preview deploys on Vercel Edge for every PR
- ✓ 100% clean, documented TypeScript repo you own completely

Result: Sub-second velocity, deterministic milestones, 100% IP handover

Principal Engineering Director

System Architecture · Next.js Edge SSR · Database Schema & Security

Lead Systems Engineer

State Management · API Gateways · Payment Conduits & AI Pipelines

Senior Design Technologist

High-Fidelity Interaction · 3D WebGL · Micro-Animations & Responsive UX

Zero middlemen · Worldwide delivery · Principal-led collaboration

READY TO BUILD?

Ready to engineer your digital flagship?

Connect directly with our engineering principals. We'll analyze your requirements, review your technical architecture, and propose a deterministic sprint roadmap within 24 hours.

quilldevelopers.com

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US · GB · EU · IN

8+	4	24h
Production Releases	Core Disciplines	Response SLA

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